

ALPHABETICAL LIST OF EXCEL FUNCTIONS

| Function name | Type and description |
|-------------------------|---|
| ABS function | Math and trigonometry: Returns the absolute value of a number |
| ACCRINT function | Financial: Returns the accrued interest for a security that pays periodic interest |
| ACCRINTM function | Financial: Returns the accrued interest for a security that pays interest at maturity |
| ACOS function | Math and trigonometry: Returns the arccosine of a number |
| ACOSH function | Math and trigonometry: Returns the inverse hyperbolic cosine of a number |
| ACOT function 2013 | Math and trigonometry: Returns the arccotangent of a number |
| ACOTH function 2013 | Math and trigonometry: Returns the hyperbolic arccotangent of a number |
| AGGREGATE function | Math and trigonometry: Returns an aggregate in a list or database |
| ADDRESS function | Lookup and reference: Returns a reference as text to a single cell in a worksheet |
| AMORDEGRC function | Financial: Returns the depreciation for each accounting period by using a depreciation coefficient |
| AMORLINC function | Financial: Returns the depreciation for each accounting period |
| AND function | Logical: Returns TRUE if all of its arguments are TRUE |
| ARABIC function 2013 | Math and trigonometry: Converts a Roman number to Arabic, as a number |
| AREAS function | Lookup and reference: Returns the number of areas in a reference |
| ASC function | Text: Changes full-width (double-byte) English letters or katakana within a character string to half-width (single-byte) characters |
| ASIN function | Math and trigonometry: Returns the arcsine of a number |

| Function name | Type and description |
|---------------------|--|
| ASINH function | Math and trigonometry: Returns the inverse hyperbolic sine of a number |
| ATAN function | Math and trigonometry: Returns the arctangent of a number |
| ATAN2 function | Math and trigonometry: Returns the arctangent from x- and y-coordinates |
| ATANH function | Math and trigonometry: Returns the inverse hyperbolic tangent of a number |
| AVEDEV function | Statistical: Returns the average of the absolute deviations of data points from their mean |
| AVERAGE function | Statistical: Returns the average of its arguments |
| AVERAGEA function | Statistical: Returns the average of its arguments, including numbers, text, and logical values |
| AVERAGEIF function | Statistical: Returns the average (arithmetic mean) of all the cells in a range that meet a given criteria |
| AVERAGEIFS function | Statistical: Returns the average (arithmetic mean) of all cells that meet multiple criteria. |
| BAHTTEXT function | Text: Converts a number to text, using the ₮ (baht) currency format |
| BASE function | Math and trigonometry: Converts a number into a text representation with the given radix (base) |
| BESSELI function | Engineering: Returns the modified Bessel function $I_n(x)$ |
| BESSELJ function | Engineering: Returns the Bessel function $J_n(x)$ |
| BESSELK function | Engineering: Returns the modified Bessel function $K_n(x)$ |
| BESSELY function | Engineering: Returns the Bessel function $Y_n(x)$ |
| BETADIST function | Compatibility: Returns the beta cumulative distribution function In Excel 2007, this is a Statistical function. |
| BETA.DIST function | Statistical: Returns the beta cumulative distribution function |

| Function name | Type and description |
|-----------------------------------|---|
| BETA.INV function | <p>Compatibility: Returns the inverse of the cumulative distribution function for a specified beta distribution</p> <p>In Excel 2007, this is a Statistical function.</p> |
| BETA.INV function 2010 | Statistical: Returns the inverse of the cumulative distribution function for a specified beta distribution |
| BIN2DEC function | Engineering: Converts a binary number to decimal |
| BIN2HEX function | Engineering: Converts a binary number to hexadecimal |
| BIN2OCT function | Engineering: Converts a binary number to octal |
| BINOMDIST function | <p>Compatibility: Returns the individual term binomial distribution probability</p> <p>In Excel 2007, this is a Statistical function.</p> |
| BINOM.DIST function 2010 | Statistical: Returns the individual term binomial distribution probability |
| BINOM.DIST.RANGE function 2013 | Statistical: Returns the probability of a trial result using a binomial distribution |
| BINOM.INV function 2010 | Statistical: Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value |
| BITAND function 2013 | Engineering: Returns a 'Bitwise And' of two numbers |
| BITLSHIFT function 2013 | Engineering: Returns a value number shifted left by shift_amount bits |
| BITOR function 2013 | Engineering: Returns a bitwise OR of 2 numbers |
| BITRSHIFT function 2013 | Engineering: Returns a value number shifted right by shift_amount bits |
| BITXOR function 2013 | Engineering: Returns a bitwise 'Exclusive Or' of two numbers |

| Function name | Type and description |
|--------------------------------|--|
| CALL function | Add-in and Automation: Calls a procedure in a dynamic link library or code resource |
| CEILING function | Math and trigonometry: Rounds a number to the nearest integer or to the nearest multiple of significance |
| CEILING.MATH function 2013 | Math and trigonometry: Rounds a number up, to the nearest integer or to the nearest multiple of significance |
| CEILING.PRECISE function | Math and trigonometry: Rounds a number the nearest integer or to the nearest multiple of significance. Regardless of the sign of the number, the number is rounded up. |
| CELL function | Information: Returns information about the formatting, location, or contents of a cell This function is not available in Excel Online. |
| CHAR function | Text: Returns the character specified by the code number |
| CHIDIST function | Compatibility: Returns the one-tailed probability of the chi-squared distribution Note: In Excel 2007, this is a Statistical function. |
| CHIINV function | Compatibility: Returns the inverse of the one-tailed probability of the chi-squared distribution Note: In Excel 2007, this is a Statistical function. |
| CHITEST function | Compatibility: Returns the test for independence Note: In Excel 2007, this is a Statistical function. |
| CHISQ.DIST function 2010 | Statistical: Returns the cumulative beta probability density function |
| CHISQ.DIST.RT function 2010 | Statistical: Returns the one-tailed probability of the chi-squared distribution |
| CHISQ.INV function 2010 | Statistical: Returns the cumulative beta probability density function |

| Function name | Type and description |
|----------------------------------|---|
| CHISQ.INV.RT function 2010 | Statistical: Returns the inverse of the one-tailed probability of the chi-squared distribution |
| CHISQ.TEST function 2010 | Statistical: Returns the test for independence |
| CHOOSE function | Lookup and reference: Chooses a value from a list of values |
| CLEAN function | Text: Removes all nonprintable characters from text |
| CODE function | Text: Returns a numeric code for the first character in a text string |
| COLUMN function | Lookup and reference: Returns the column number of a reference |
| COLUMNS function | Lookup and reference: Returns the number of columns in a reference |
| COMBIN function | Math and trigonometry: Returns the number of combinations for a given number of objects |
| COMBINA function 2013 | Math and trigonometry: Returns the number of combinations with repetitions for a given number of items |
| COMPLEX function | Engineering: Converts real and imaginary coefficients into a complex number |
| CONCAT function 2016 | Text: Combines the text from multiple ranges and/or strings, but it doesn't provide the delimiter or IgnoreEmpty arguments. |
| CONCATENATE function | Text: Joins several text items into one text item |
| CONFIDENCE function | Compatibility: Returns the confidence interval for a population mean In Excel 2007, this is a Statistical function. |
| CONFIDENCE.NORM function 2010 | Statistical: Returns the confidence interval for a population mean |
| CONFIDENCE.T function 2010 | Statistical: Returns the confidence interval for a population mean, using a Student's t distribution |
| CONVERT function | Engineering: Converts a number from one measurement system to another |

| Function name | Type and description |
|-----------------------|--|
| CORREL function | Statistical: Returns the correlation coefficient between two data sets |
| COS function | Math and trigonometry: Returns the cosine of a number |
| COSH function | Math and trigonometry: Returns the hyperbolic cosine of a number |
| COT function 2013 | Math and trigonometry: Returns the hyperbolic cosine of a number |
| COTH function 2013 | Math and trigonometry: Returns the cotangent of an angle |
| COUNT function | Statistical: Counts how many numbers are in the list of arguments |
| COUNTA function | Statistical: Counts how many values are in the list of arguments |
| COUNTBLANK function | Statistical: Counts the number of blank cells within a range |
| COUNTIF function | Statistical: Counts the number of cells within a range that meet the given criteria |
| COUNTIFS function | Statistical: Counts the number of cells within a range that meet multiple criteria |
| COUPDAYBS function | Financial: Returns the number of days from the beginning of the coupon period to the settlement date |
| COUPDAYS function | Financial: Returns the number of days in the coupon period that contains the settlement date |
| COUPDAYSNC function | Financial: Returns the number of days from the settlement date to the next coupon date |
| COUPNCD function | Financial: Returns the next coupon date after the settlement date |
| COUPNUM function | Financial: Returns the number of coupons payable between the settlement date and maturity date |
| COUPPCD function | Financial: Returns the previous coupon date before the settlement date |
| COVAR function | Compatibility: Returns covariance, the average of the products of paired deviations |

| Function name | Type and description |
|-------------------------------|---|
| | In Excel 2007, this is a Statistical function. |
| COVARIANCE.P function 2010 | Statistical: Returns covariance, the average of the products of paired deviations |
| COVARIANCE.S function 2010 | Statistical: Returns the sample covariance, the average of the products deviations for each data point pair in two data sets |
| | Compatibility: Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value |
| CRITBINOM function | In Excel 2007, this is a Statistical function. |
| CSC function 2013 | Math and trigonometry: Returns the cosecant of an angle |
| CSCH function 2013 | Math and trigonometry: Returns the hyperbolic cosecant of an angle |
| CUBEKPIMEMBER function | Cube: Returns a key performance indicator (KPI) name, property, and measure, and displays the name and property in the cell. A KPI is a quantifiable measurement, such as monthly gross profit or quarterly employee turnover, used to monitor an organization's performance. |
| CUBEMEMBER function | Cube: Returns a member or tuple in a cube hierarchy. Use to validate that the member or tuple exists in the cube. |
| CUBEMEMBERPROPERTY function | Cube: Returns the value of a member property in the cube. Use to validate that a member name exists within the cube and to return the specified property for this member. |
| CUBERANKEDMEMBER function | Cube: Returns the nth, or ranked, member in a set. Use to return one or more elements in a set, such as the top sales performer or top 10 students. |
| CUBESET function | Cube: Defines a calculated set of members or tuples by sending a set expression to the cube on the server, which creates the set, and then returns that set to Microsoft Office Excel. |
| CUBESETCOUNT function | Cube: Returns the number of items in a set. |
| CUBEVALUE function | Cube: Returns an aggregated value from a cube. |

| Function name | Type and description |
|--|---|
| CUMIPMT function | Financial: Returns the cumulative interest paid between two periods |
| CUMPRINC function | Financial: Returns the cumulative principal paid on a loan between two periods |
| DATE function | Date and time: Returns the serial number of a particular date |
| DATEDIF function | Date and time: Calculates the number of days, months, or years between two dates. This function is useful in formulas where you need to calculate an age. |
| DATEVALUE function | Date and time: Converts a date in the form of text to a serial number |
| DAVERAGE function | Database: Returns the average of selected database entries |
| DAY function | Date and time: Converts a serial number to a day of the month |
| DAYS function <input type="text" value="2013"/> | Date and time: Returns the number of days between two dates |
| DAYS360 function | Date and time: Calculates the number of days between two dates based on a 360-day year |
| DB function | Financial: Returns the depreciation of an asset for a specified period by using the fixed-declining balance method |
| DBCS function <input type="text" value="2013"/> | Text: Changes half-width (single-byte) English letters or katakana within a character string to full-width (double-byte) characters |
| DCOUNT function | Database: Counts the cells that contain numbers in a database |
| DCOUNTA function | Database: Counts nonblank cells in a database |
| DDB function | Financial: Returns the depreciation of an asset for a specified period by using the double-declining balance method or some other method that you specify |
| DEC2BIN function | Engineering: Converts a decimal number to binary |
| DEC2HEX function | Engineering: Converts a decimal number to hexadecimal |
| DEC2OCT function | Engineering: Converts a decimal number to octal |

| Function name | Type and description |
|--------------------------|---|
| DECIMAL function 2013 | Math and trigonometry: Converts a text representation of a number in a given base into a decimal number |
| DEGREES function | Math and trigonometry: Converts radians to degrees |
| DELTA function | Engineering: Tests whether two values are equal |
| DEVSQ function | Statistical: Returns the sum of squares of deviations |
| DGET function | Database: Extracts from a database a single record that matches the specified criteria |
| DISC function | Financial: Returns the discount rate for a security |
| DMAX function | Database: Returns the maximum value from selected database entries |
| DMIN function | Database: Returns the minimum value from selected database entries |
| DOLLAR function | Text: Converts a number to text, using the \$ (dollar) currency format |
| DOLLARDE function | Financial: Converts a dollar price, expressed as a fraction, into a dollar price, expressed as a decimal number |
| DOLLARFR function | Financial: Converts a dollar price, expressed as a decimal number, into a dollar price, expressed as a fraction |
| DPRODUCT function | Database: Multiplies the values in a particular field of records that match the criteria in a database |
| DSTDEV function | Database: Estimates the standard deviation based on a sample of selected database entries |
| DSTDEVP function | Database: Calculates the standard deviation based on the entire population of selected database entries |
| DSUM function | Database: Adds the numbers in the field column of records in the database that match the criteria |
| DURATION function | Financial: Returns the annual duration of a security with periodic interest payments |
| DVAR function | Database: Estimates variance based on a sample from selected database entries |

| Function name | Type and description |
|-------------------------------|--|
| DVARP function | Database: Calculates variance based on the entire population of selected database entries |
| EDATE function | Date and time: Returns the serial number of the date that is the indicated number of months before or after the start date |
| EFFECT function | Financial: Returns the effective annual interest rate |
| ENCODEURL function 2013 | Web: Returns a URL-encoded string This function is not available in Excel Online. |
| EOMONTH function | Date and time: Returns the serial number of the last day of the month before or after a specified number of months |
| ERF function | Engineering: Returns the error function |
| ERF.PRECISE function 2010 | Engineering: Returns the error function |
| ERFC function | Engineering: Returns the complementary error function |
| ERFC.PRECISE function 2010 | Engineering: Returns the complementary ERF function integrated between x and infinity |
| ERROR.TYPE function | Information: Returns a number corresponding to an error type |
| EUROCONVERT function | Add-in and Automation: Converts a number to euros, converts a number from euros to a euro member currency, or converts a number from one euro member currency to another by using the euro as an intermediary (triangulation). |
| EVEN function | Math and trigonometry: Rounds a number up to the nearest even integer |
| EXACT function | Text: Checks to see if two text values are identical |
| EXP function | Math and trigonometry: Returns e raised to the power of a given number |
| EXPON.DIST function 2010 | Statistical: Returns the exponential distribution |
| EXPONDIST function | Compatibility: Returns the exponential distribution |

| Function name | Type and description |
|-------------------------------|---|
| | In Excel 2007, this is a Statistical function. |
| FACT function | Math and trigonometry: Returns the factorial of a number |
| FACTDOUBLE function | Math and trigonometry: Returns the double factorial of a number |
| FALSE function | Logical: Returns the logical value FALSE |
| F.DIST function 2010 | Statistical: Returns the F probability distribution |
| FDIST function | Compatibility: Returns the F probability distribution In Excel 2007, this is a Statistical function. |
| F.DIST.RT function 2010 | Statistical: Returns the F probability distribution |
| FILTER function Office 365 | Lookup and reference: Filters a range of data based on criteria you define |
| FILTERXML function 2013 | Web: Returns specific data from the XML content by using the specified XPath This function is not available in Excel Online. |
| FIND, FINDB functions | Text: Finds one text value within another (case-sensitive) |
| F.INV function 2010 | Statistical: Returns the inverse of the F probability distribution |
| F.INV.RT function 2010 | Statistical: Returns the inverse of the F probability distribution |
| FINV function | Statistical: Returns the inverse of the F probability distribution |
| FISHER function | Statistical: Returns the Fisher transformation |
| FISHERINV function | Statistical: Returns the inverse of the Fisher transformation |
| FIXED function | Text: Formats a number as text with a fixed number of decimals |
| FLOOR function | Compatibility: Rounds a number down, toward zero |

| Function name | Type and description |
|---|---|
| FLOOR.MATH function 2013 | In Excel 2007 and Excel 2010, this is a Math and trigonometry function. Math and trigonometry: Rounds a number down, to the nearest integer or to the nearest multiple of significance |
| FLOOR.PRECISE function | Math and trigonometry: Rounds a number the nearest integer or to the nearest multiple of significance. Regardless of the sign of the number, the number is rounded up. Statistical: Returns a value along a linear trend |
| FORECAST function | In Excel 2016, this function is replaced with FORECAST.LINEAR as part of the new Forecasting functions, but it's still available for compatibility with earlier versions. |
| FORECAST.ETS function 2016 | Statistical: Returns a future value based on existing (historical) values by using the AAA version of the Exponential Smoothing (ETS) algorithm |
| FORECAST.ETS.CONFINT function 2016 | Statistical: Returns a confidence interval for the forecast value at the specified target date |
| FORECAST.ETS.SEASONALITY function 2016 | Statistical: Returns the length of the repetitive pattern Excel detects for the specified time series |
| FORECAST.ETS.STAT function 2016 | Statistical: Returns a statistical value as a result of time series forecasting |
| FORECAST.LINEAR function 2016 | Statistical: Returns a future value based on existing values |
| FORMULATEXT function 2013 | Lookup and reference: Returns the formula at the given reference as text |
| FREQUENCY function | Statistical: Returns a frequency distribution as a vertical array |
| F.TEST function 2010 | Statistical: Returns the result of an F-test |
| FTEST function | Compatibility: Returns the result of an F-test In Excel 2007, this is a Statistical function. |

| Function name | Type and description |
|----------------------------------|---|
| FV function | Financial: Returns the future value of an investment |
| FVSCHEDULE function | Financial: Returns the future value of an initial principal after applying a series of compound interest rates |
| GAMMA function 2013 | Statistical: Returns the Gamma function value |
| GAMMA.DIST function 2010 | Statistical: Returns the gamma distribution |
| GAMMADIST function | Compatibility: Returns the gamma distribution In Excel 2007, this is a Statistical function. |
| GAMMA.INV function 2010 | Statistical: Returns the inverse of the gamma cumulative distribution |
| GAMMAINV function | Compatibility: Returns the inverse of the gamma cumulative distribution In Excel 2007, this is a Statistical function. |
| GAMMALN function | Statistical: Returns the natural logarithm of the gamma function, $\Gamma(x)$ |
| GAMMALN.PRECISE function 2010 | Statistical: Returns the natural logarithm of the gamma function, $\Gamma(x)$ |
| GAUSS function 2013 | Statistical: Returns 0.5 less than the standard normal cumulative distribution |
| GCD function | Math and trigonometry: Returns the greatest common divisor |
| GEOMEAN function | Statistical: Returns the geometric mean |
| GESTEP function | Engineering: Tests whether a number is greater than a threshold value |
| GETPIVOTDATA function | Lookup and reference: Returns data stored in a PivotTable report |
| GROWTH function | Statistical: Returns values along an exponential trend |
| HARMEAN function | Statistical: Returns the harmonic mean |
| HEX2BIN function | Engineering: Converts a hexadecimal number to binary |

| Function name | Type and description |
|-------------------------|---|
| HEX2DEC function | Engineering: Converts a hexadecimal number to decimal |
| HEX2OCT function | Engineering: Converts a hexadecimal number to octal |
| HLOOKUP function | Lookup and reference: Looks in the top row of an array and returns the value of the indicated cell |
| HOUR function | Date and time: Converts a serial number to an hour |
| HYPERLINK function | Lookup and reference: Creates a shortcut or jump that opens a document stored on a network server, an intranet, or the Internet |
| HYPGEOM.DIST function | Statistical: Returns the hypergeometric distribution |
| HYPGEOMDIST function | Compatibility: Returns the hypergeometric distribution In Excel 2007, this is a Statistical function. |
| IF function | Logical: Specifies a logical test to perform |
| IFERROR function | Logical: Returns a value you specify if a formula evaluates to an error; otherwise, returns the result of the formula |
| IFNA function 2013 | Logical: Returns the value you specify if the expression resolves to #N/A, otherwise returns the result of the expression |
| IFS function 2016 | Logical: Checks whether one or more conditions are met and returns a value that corresponds to the first TRUE condition. |
| IMABS function | Engineering: Returns the absolute value (modulus) of a complex number |
| IMAGINARY function | Engineering: Returns the imaginary coefficient of a complex number |
| IMARGUMENT function | Engineering: Returns the argument theta, an angle expressed in radians |
| IMCONJUGATE function | Engineering: Returns the complex conjugate of a complex number |
| IMCOS function | Engineering: Returns the cosine of a complex number |
| IMCOSH function 2013 | Engineering: Returns the hyperbolic cosine of a complex number |

| Function name | Type and description |
|-------------------------|--|
| IMCOT function 2013 | Engineering: Returns the cotangent of a complex number |
| IMCSC function 2013 | Engineering: Returns the cosecant of a complex number |
| IMCSCH function 2013 | Engineering: Returns the hyperbolic cosecant of a complex number |
| IMDIV function | Engineering: Returns the quotient of two complex numbers |
| IMEXP function | Engineering: Returns the exponential of a complex number |
| IMLN function | Engineering: Returns the natural logarithm of a complex number |
| IMLOG10 function | Engineering: Returns the base-10 logarithm of a complex number |
| IMLOG2 function | Engineering: Returns the base-2 logarithm of a complex number |
| IMPOWER function | Engineering: Returns a complex number raised to an integer power |
| IMPRODUCT function | Engineering: Returns the product of complex numbers |
| IMREAL function | Engineering: Returns the real coefficient of a complex number |
| IMSEC function 2013 | Engineering: Returns the secant of a complex number |
| IMSECH function 2013 | Engineering: Returns the hyperbolic secant of a complex number |
| IMSIN function | Engineering: Returns the sine of a complex number |
| IMSINH function 2013 | Engineering: Returns the hyperbolic sine of a complex number |
| IMSQRT function | Engineering: Returns the square root of a complex number |
| IMSUB function | Engineering: Returns the difference between two complex numbers |
| IMSUM function | Engineering: Returns the sum of complex numbers |
| IMTAN function 2013 | Engineering: Returns the tangent of a complex number |

| Function name | Type and description |
|--------------------|---|
| INDEX function | Lookup and reference: Uses an index to choose a value from a reference or array |
| INDIRECT function | Lookup and reference: Returns a reference indicated by a text value |
| INFO function | Information: Returns information about the current operating environment This function is not available in Excel Online. |
| INT function | Math and trigonometry: Rounds a number down to the nearest integer |
| INTERCEPT function | Statistical: Returns the intercept of the linear regression line |
| INTRATE function | Financial: Returns the interest rate for a fully invested security |
| IPMT function | Financial: Returns the interest payment for an investment for a given period |
| IRR function | Financial: Returns the internal rate of return for a series of cash flows |
| ISBLANK function | Information: Returns TRUE if the value is blank |
| ISERR function | Information: Returns TRUE if the value is any error value except #N/A |
| ISERROR function | Information: Returns TRUE if the value is any error value |
| ISEVEN function | Information: Returns TRUE if the number is even |
| ISFORMULA function | Information: Returns TRUE if there is a reference to a cell that contains a formula |
| ISLOGICAL function | Information: Returns TRUE if the value is a logical value |
| ISNA function | Information: Returns TRUE if the value is the #N/A error value |
| ISNONTEXT function | Information: Returns TRUE if the value is not text |
| ISNUMBER function | Information: Returns TRUE if the value is a number |
| ISODD function | Information: Returns TRUE if the number is odd |
| ISREF function | Information: Returns TRUE if the value is a reference |

2013

| Function name | Type and description |
|-------------------------------|--|
| ISTEXT function | Information: Returns TRUE if the value is text |
| ISO.CEILING function 2013 | Math and trigonometry: Returns a number that is rounded up to the nearest integer or to the nearest multiple of significance |
| ISOWEEKNUM function 2013 | Date and time: Returns the number of the ISO week number of the year for a given date |
| ISPMT function | Financial: Calculates the interest paid during a specific period of an investment |
| JIS function | Text: Changes half-width (single-byte) characters within a string to full-width (double-byte) characters |
| KURT function | Statistical: Returns the kurtosis of a data set |
| LARGE function | Statistical: Returns the k-th largest value in a data set |
| LCM function | Math and trigonometry: Returns the least common multiple |
| LEFT, LEFTB functions | Text: Returns the leftmost characters from a text value |
| LEN, LENB functions | Text: Returns the number of characters in a text string |
| LINEST function | Statistical: Returns the parameters of a linear trend |
| LN function | Math and trigonometry: Returns the natural logarithm of a number |
| LOG function | Math and trigonometry: Returns the logarithm of a number to a specified base |
| LOG10 function | Math and trigonometry: Returns the base-10 logarithm of a number |
| LOGEST function | Statistical: Returns the parameters of an exponential trend |
| LOGINV function | Compatibility: Returns the inverse of the lognormal cumulative distribution |
| LOGNORM.DIST function 2010 | Statistical: Returns the cumulative lognormal distribution |
| LOGNORMDIST function | Compatibility: Returns the cumulative lognormal distribution |

| Function name | Type and description |
|------------------------------|---|
| LOGNORM.INV function 2010 | Statistical: Returns the inverse of the lognormal cumulative distribution |
| LOOKUP function | Lookup and reference: Looks up values in a vector or array |
| LOWER function | Text: Converts text to lowercase |
| MATCH function | Lookup and reference: Looks up values in a reference or array |
| MAX function | Statistical: Returns the maximum value in a list of arguments |
| MAXA function | Statistical: Returns the maximum value in a list of arguments, including numbers, text, and logical values |
| MAXIFS function 2016 | Statistical: Returns the maximum value among cells specified by a given set of conditions or criteria |
| MDETERM function | Math and trigonometry: Returns the matrix determinant of an array |
| MDURATION function | Financial: Returns the Macauley modified duration for a security with an assumed par value of \$100 |
| MEDIAN function | Statistical: Returns the median of the given numbers |
| MID, MIDB functions | Text: Returns a specific number of characters from a text string starting at the position you specify |
| MIN function | Statistical: Returns the minimum value in a list of arguments |
| MINIFS function 2016 | Statistical: Returns the minimum value among cells specified by a given set of conditions or criteria. |
| MINA function | Statistical: Returns the smallest value in a list of arguments, including numbers, text, and logical values |
| MINUTE function | Date and time: Converts a serial number to a minute |
| MINVERSE function | Math and trigonometry: Returns the matrix inverse of an array |
| MIRR function | Financial: Returns the internal rate of return where positive and negative cash flows are financed at different rates |
| MMULT function | Math and trigonometry: Returns the matrix product of two arrays |

| Function name | Type and description |
|-----------------------------------|---|
| MOD function | Math and trigonometry: Returns the remainder from division |
| MODE function | Compatibility: Returns the most common value in a data set In Excel 2007, this is a Statistical function. |
| MODE.MULT function 2010 | Statistical: Returns a vertical array of the most frequently occurring, or repetitive values in an array or range of data |
| MODE.SNGL function 2010 | Statistical: Returns the most common value in a data set |
| MONTH function | Date and time: Converts a serial number to a month |
| MROUND function | Math and trigonometry: Returns a number rounded to the desired multiple |
| MULTINOMIAL function | Math and trigonometry: Returns the multinomial of a set of numbers |
| MUNIT function 2013 | Math and trigonometry: Returns the unit matrix or the specified dimension |
| N function | Information: Returns a value converted to a number |
| NA function | Information: Returns the error value #N/A |
| NEGBINOM.DIST function 2010 | Statistical: Returns the negative binomial distribution |
| NEGBINOMDIST function | Compatibility: Returns the negative binomial distribution In Excel 2007, this is a Statistical function. |
| NETWORKDAYS function | Date and time: Returns the number of whole workdays between two dates |
| NETWORKDAYS.INTL function 2010 | Date and time: Returns the number of whole workdays between two dates using parameters to indicate which and how many days are weekend days |
| NOMINAL function | Financial: Returns the annual nominal interest rate |
| NORM.DIST function 2010 | Statistical: Returns the normal cumulative distribution |

| Function name | Type and description |
|------------------------------|--|
| NORMDIST function | Compatibility: Returns the normal cumulative distribution In Excel 2007, this is a Statistical function. |
| NORMINV function | Statistical: Returns the inverse of the normal cumulative distribution |
| NORM.INV function 2010 | Compatibility: Returns the inverse of the normal cumulative distribution Note: In Excel 2007, this is a Statistical function. |
| NORM.S.DIST function 2010 | Statistical: Returns the standard normal cumulative distribution |
| NORMSDIST function | Compatibility: Returns the standard normal cumulative distribution In Excel 2007, this is a Statistical function. |
| NORM.S.INV function 2010 | Statistical: Returns the inverse of the standard normal cumulative distribution Compatibility: Returns the inverse of the standard normal cumulative distribution |
| NORMSINV function | In Excel 2007, this is a Statistical function. |
| NOT function | Logical: Reverses the logic of its argument |
| NOW function | Date and time: Returns the serial number of the current date and time |
| NPER function | Financial: Returns the number of periods for an investment |
| NPV function | Financial: Returns the net present value of an investment based on a series of periodic cash flows and a discount rate |
| NUMBERVALUE function 2013 | Text: Converts text to number in a locale-independent manner |
| OCT2BIN function | Engineering: Converts an octal number to binary |
| OCT2DEC function | Engineering: Converts an octal number to decimal |
| OCT2HEX function | Engineering: Converts an octal number to hexadecimal |

| Function name | Type and description |
|----------------------------------|---|
| ODD function | Math and trigonometry: Rounds a number up to the nearest odd integer |
| ODDFPRICE function | Financial: Returns the price per \$100 face value of a security with an odd first period |
| ODDFYIELD function | Financial: Returns the yield of a security with an odd first period |
| ODDLPRICE function | Financial: Returns the price per \$100 face value of a security with an odd last period |
| ODDLYIELD function | Financial: Returns the yield of a security with an odd last period |
| OFFSET function | Lookup and reference: Returns a reference offset from a given reference |
| OR function | Logical: Returns TRUE if any argument is TRUE |
| PDURATION function 2013 | Financial: Returns the number of periods required by an investment to reach a specified value |
| PEARSON function | Statistical: Returns the Pearson product moment correlation coefficient |
| PERCENTILE.EXC function 2010 | Statistical: Returns the k-th percentile of values in a range, where k is in the range 0..1, exclusive |
| PERCENTILE.INC function 2010 | Statistical: Returns the k-th percentile of values in a range |
| PERCENTILE function | Compatibility: Returns the k-th percentile of values in a range In Excel 2007, this is a Statistical function. |
| PERCENTRANK.EXC function 2010 | Statistical: Returns the rank of a value in a data set as a percentage (0..1, exclusive) of the data set |
| PERCENTRANK.INC function 2010 | Statistical: Returns the percentage rank of a value in a data set |
| PERCENTRANK function | Compatibility: Returns the percentage rank of a value in a data set In Excel 2007, this is a Statistical function. |

| Function name | Type and description |
|-------------------------------|--|
| PERMUT function | Statistical: Returns the number of permutations for a given number of objects |
| PERMUTATIONA function 2013 | Statistical: Returns the number of permutations for a given number of objects (with repetitions) that can be selected from the total objects |
| PHI function 2013 | Statistical: Returns the value of the density function for a standard normal distribution |
| PHONETIC function | Text: Extracts the phonetic (furigana) characters from a text string |
| PI function | Math and trigonometry: Returns the value of pi |
| PMT function | Financial: Returns the periodic payment for an annuity |
| POISSON.DIST function 2010 | Statistical: Returns the Poisson distribution |
| POISSON function | Compatibility: Returns the Poisson distribution In Excel 2007, this is a Statistical function. |
| POWER function | Math and trigonometry: Returns the result of a number raised to a power |
| PPMT function | Financial: Returns the payment on the principal for an investment for a given period |
| PRICE function | Financial: Returns the price per \$100 face value of a security that pays periodic interest |
| PRICEDISC function | Financial: Returns the price per \$100 face value of a discounted security |
| PRICEMAT function | Financial: Returns the price per \$100 face value of a security that pays interest at maturity |
| PROB function | Statistical: Returns the probability that values in a range are between two limits |
| PRODUCT function | Math and trigonometry: Multiplies its arguments |
| PROPER function | Text: Capitalizes the first letter in each word of a text value |

| Function name | Type and description |
|----------------------------------|---|
| PV function | Financial: Returns the present value of an investment |
| QUARTILE function | Compatibility: Returns the quartile of a data set In Excel 2007, this is a Statistical function. |
| QUARTILE.EXC function 2010 | Statistical: Returns the quartile of the data set, based on percentile values from 0..1, exclusive |
| QUARTILE.INC function 2010 | Statistical: Returns the quartile of a data set |
| QUOTIENT function | Math and trigonometry: Returns the integer portion of a division |
| RADIANS function | Math and trigonometry: Converts degrees to radians |
| RAND function | Math and trigonometry: Returns a random number between 0 and 1 |
| RANDARRAY function Office 365 | Math and trigonometry: Returns an array of random numbers between 0 and 1 |
| RANDBETWEEN function | Math and trigonometry: Returns a random number between the numbers you specify |
| RANK.AVG function 2010 | Statistical: Returns the rank of a number in a list of numbers |
| RANK.EQ function 2010 | Statistical: Returns the rank of a number in a list of numbers |
| RANK function | Compatibility: Returns the rank of a number in a list of numbers In Excel 2007, this is a Statistical function. |
| RATE function | Financial: Returns the interest rate per period of an annuity |
| RECEIVED function | Financial: Returns the amount received at maturity for a fully invested security |
| REGISTER.ID function | Add-in and Automation: Returns the register ID of the specified dynamic link library (DLL) or code resource that has been previously registered |
| REPLACE, REPLACEB functions | Text: Replaces characters within text |

| Function name | Type and description |
|---------------------------------|---|
| REPT function | Text: Repeats text a given number of times |
| RIGHT, RIGHTB functions | Text: Returns the rightmost characters from a text value |
| ROMAN function | Math and trigonometry: Converts an arabic numeral to roman, as text |
| ROUND function | Math and trigonometry: Rounds a number to a specified number of digits |
| ROUNDDOWN function | Math and trigonometry: Rounds a number down, toward zero |
| ROUNDUP function | Math and trigonometry: Rounds a number up, away from zero |
| ROW function | Lookup and reference: Returns the row number of a reference |
| ROWS function | Lookup and reference: Returns the number of rows in a reference |
| RRI function 2013 | Financial: Returns an equivalent interest rate for the growth of an investment |
| RSQ function | Statistical: Returns the square of the Pearson product moment correlation coefficient |
| RTD function | Lookup and reference: Retrieves real-time data from a program that supports COM automation |
| SEARCH, SEARCHB functions | Text: Finds one text value within another (not case-sensitive) |
| SEC function 2013 | Math and trigonometry: Returns the secant of an angle |
| SECH function 2013 | Math and trigonometry: Returns the hyperbolic secant of an angle |
| SECOND function | Date and time: Converts a serial number to a second |
| SEQUENCE function Office 365 | Math and trigonometry: Generates a list of sequential numbers in an array, such as 1, 2, 3, 4 |
| SERIESSUM function | Math and trigonometry: Returns the sum of a power series based on the formula |

| Function name | Type and description |
|-------------------------------|--|
| SHEET function 2013 | Information: Returns the sheet number of the referenced sheet |
| SHEETS function 2013 | Information: Returns the number of sheets in a reference |
| SIGN function | Math and trigonometry: Returns the sign of a number |
| SIN function | Math and trigonometry: Returns the sine of the given angle |
| SINGLE function | Lookup and reference: Returns a single value using logic known as implicit intersection |
| SINH function | Math and trigonometry: Returns the hyperbolic sine of a number |
| SKEW function | Statistical: Returns the skewness of a distribution |
| SKEW.P function 2013 | Statistical: Returns the skewness of a distribution based on a population: a characterization of the degree of asymmetry of a distribution around its mean |
| SLN function | Financial: Returns the straight-line depreciation of an asset for one period |
| SLOPE function | Statistical: Returns the slope of the linear regression line |
| SMALL function | Statistical: Returns the k-th smallest value in a data set |
| SORT function Office 365 | Lookup and reference: Sorts the contents of a range or array |
| SORTBY function Office 365 | Lookup and reference: Sorts the contents of a range or array based on the values in a corresponding range or array |
| SQRT function | Math and trigonometry: Returns a positive square root |
| SQRTPI function | Math and trigonometry: Returns the square root of (number * pi) |
| STANDARDIZE function | Statistical: Returns a normalized value |
| STDEV function | Compatibility: Estimates standard deviation based on a sample |

| Function name | Type and description |
|--------------------------|---|
| STDEV.P function 2010 | Statistical: Calculates standard deviation based on the entire population |
| STDEV.S function 2010 | Statistical: Estimates standard deviation based on a sample |
| STDEVA function | Statistical: Estimates standard deviation based on a sample, including numbers, text, and logical values |
| STDEVP function | Compatibility: Calculates standard deviation based on the entire population In Excel 2007, this is a Statistical function. |
| STDEVPA function | Statistical: Calculates standard deviation based on the entire population, including numbers, text, and logical values |
| STEYX function | Statistical: Returns the standard error of the predicted y-value for each x in the regression |
| SUBSTITUTE function | Text: Substitutes new text for old text in a text string |
| SUBTOTAL function | Math and trigonometry: Returns a subtotal in a list or database |
| SUM function | Math and trigonometry: Adds its arguments |
| SUMIF function | Math and trigonometry: Adds the cells specified by a given criteria |
| SUMIFS function | Math and trigonometry: Adds the cells in a range that meet multiple criteria |
| SUMPRODUCT function | Math and trigonometry: Returns the sum of the products of corresponding array components |
| SUMSQ function | Math and trigonometry: Returns the sum of the squares of the arguments |
| SUMX2MY2 function | Math and trigonometry: Returns the sum of the difference of squares of corresponding values in two arrays |
| SUMX2PY2 function | Math and trigonometry: Returns the sum of the sum of squares of corresponding values in two arrays |

| Function name | Type and description |
|----------------------------|---|
| SUMXMY2 function | Math and trigonometry: Returns the sum of squares of differences of corresponding values in two arrays |
| SWITCH function 2016 | Logical: Evaluates an expression against a list of values and returns the result corresponding to the first matching value. If there is no match, an optional default value may be returned. |
| SYD function | Financial: Returns the sum-of-years' digits depreciation of an asset for a specified period |
| T function | Text: Converts its arguments to text |
| TAN function | Math and trigonometry: Returns the tangent of a number |
| TANH function | Math and trigonometry: Returns the hyperbolic tangent of a number |
| TBILLEQ function | Financial: Returns the bond-equivalent yield for a Treasury bill |
| TBILLPRICE function | Financial: Returns the price per \$100 face value for a Treasury bill |
| TBILLYIELD function | Financial: Returns the yield for a Treasury bill |
| T.DIST function 2010 | Statistical: Returns the Percentage Points (probability) for the Student t-distribution |
| T.DIST.2T function 2010 | Statistical: Returns the Percentage Points (probability) for the Student t-distribution |
| T.DIST.RT function 2010 | Statistical: Returns the Student's t-distribution |
| TDIST function | Compatibility: Returns the Student's t-distribution |
| TEXT function | Text: Formats a number and converts it to text |
| TEXTJOIN function 2016 | Text: Combines the text from multiple ranges and/or strings, and includes a delimiter you specify between each text value that will be combined. If the delimiter is an empty text string, this function will effectively concatenate the ranges. |
| TIME function | Date and time: Returns the serial number of a particular time |
| TIMEVALUE function | Date and time: Converts a time in the form of text to a serial number |

| Function name | Type and description |
|-------------------------------|---|
| T.INV function 2010 | Statistical: Returns the t-value of the Student's t-distribution as a function of the probability and the degrees of freedom |
| T.INV.2T function 2010 | Statistical: Returns the inverse of the Student's t-distribution |
| TINV function | Compatibility: Returns the inverse of the Student's t-distribution |
| TODAY function | Date and time: Returns the serial number of today's date |
| TRANSPOSE function | Lookup and reference: Returns the transpose of an array |
| TREND function | Statistical: Returns values along a linear trend |
| TRIM function | Text: Removes spaces from text |
| TRIMMEAN function | Statistical: Returns the mean of the interior of a data set |
| TRUE function | Logical: Returns the logical value TRUE |
| TRUNC function | Math and trigonometry: Truncates a number to an integer |
| T.TEST function 2010 | Statistical: Returns the probability associated with a Student's t-test |
| TTEST function | Compatibility: Returns the probability associated with a Student's t-test In Excel 2007, this is a Statistical function. |
| TYPE function | Information: Returns a number indicating the data type of a value |
| UNICHAR function 2013 | Text: Returns the Unicode character that is referenced by the given numeric value |
| UNICODE function 2013 | Text: Returns the number (code point) that corresponds to the first character of the text |
| UNIQUE function Office 365 | Lookup and reference: Returns a list of unique values in a list or range |
| UPPER function | Text: Converts text to uppercase |

| Function name | Type and description |
|-------------------------------|--|
| VALUE function | Text: Converts a text argument to a number |
| VAR function | Compatibility: Estimates variance based on a sample In Excel 2007, this is a Statistical function. |
| VAR.P function 2010 | Statistical: Calculates variance based on the entire population |
| VAR.S function 2010 | Statistical: Estimates variance based on a sample |
| VARA function | Statistical: Estimates variance based on a sample, including numbers, text, and logical values |
| VARP function | Compatibility: Calculates variance based on the entire population In Excel 2007, this is a Statistical function. |
| VARPA function | Statistical: Calculates variance based on the entire population, including numbers, text, and logical values |
| VDB function | Financial: Returns the depreciation of an asset for a specified or partial period by using a declining balance method |
| VLOOKUP function | Lookup and reference: Looks in the first column of an array and moves across the row to return the value of a cell |
| WEBSERVICE function 2013 | Web: Returns data from a web service. This function is not available in Excel Online. |
| WEEKDAY function | Date and time: Converts a serial number to a day of the week |
| WEEKNUM function | Date and time: Converts a serial number to a number representing where the week falls numerically with a year |
| WEIBULL function | Compatibility: Calculates variance based on the entire population, including numbers, text, and logical values In Excel 2007, this is a Statistical function. |
| WEIBULL.DIST function 2010 | Statistical: Returns the Weibull distribution |

| Function name | Type and description |
|-------------------------------|---|
| WORKDAY function | Date and time: Returns the serial number of the date before or after a specified number of workdays |
| WORKDAY.INTL function 2010 | Date and time: Returns the serial number of the date before or after a specified number of workdays using parameters to indicate which and how many days are weekend days |
| XIRR function | Financial: Returns the internal rate of return for a schedule of cash flows that is not necessarily periodic |
| XNPV function | Financial: Returns the net present value for a schedule of cash flows that is not necessarily periodic |
| XOR function 2013 | Logical: Returns a logical exclusive OR of all arguments |
| YEAR function | Date and time: Converts a serial number to a year |
| YEARFRAC function | Date and time: Returns the year fraction representing the number of whole days between start_date and end_date |
| YIELD function | Financial: Returns the yield on a security that pays periodic interest |
| YIELDDISC function | Financial: Returns the annual yield for a discounted security; for example, a Treasury bill |
| YIELDMAT function | Financial: Returns the annual yield of a security that pays interest at maturity |
| Z.TEST function 2010 | Statistical: Returns the one-tailed probability-value of a z-test |
| ZTEST function | Compatibility: Returns the one-tailed probability-value of a z-test In Excel 2007, this is a Statistical function. |