From Notepad

```
function xl_floor(cellVals)
{
  if(isNaN(cellVals[0])||isNaN(cellVals[1]))
    return('#VALUE!')

  if(cellVals[0].length==0)
    return(0)

  if(cellVals[1].length==0)
    return('#DIV/0!')

  cellVals[0] = parseFloat(cellVals[0])
  cellVals[1] = parseFloat(cellVals[1])

  if(cellVals[0]==0)
    return(0)
  if(cellVals[1]==0)
    return('#DIV/0!')

  if(cellVals[0]*cellVals[1]<0)
    return('#NUM!')

  var sign = cellVals[0]/Math.abs(cellVals[0])

  return sign*Math.floor(Math.abs(cellVals[0]/cellVals[1]))*Ma
}
```

To Excel Macro

```
js_xl = js_xl & "function xl_floor(cellVals)" & vbcrlf
js_xl = js_xl & "{" & vbcrlf
js_xl = js_xl & "   if(isNaN(cellVals[0])||isNaN(cellVals[1]))" & vbcrlf
js_xl = js_xl & "      return('#VALUE!')" & vbcrlf
js_xl = js_xl & "   " & vbcrlf
js_xl = js_xl & "   if(cellVals[0].length==0)" & vbcrlf
js_xl = js_xl & "      return(0)" & vbcrlf
js_xl = js_xl & "      " & vbcrlf
js_xl = js_xl & "   if(cellVals[1].length==0)" & vbcrlf
js_xl = js_xl & "      return('#DIV/0!')" & vbcrlf
js_xl = js_xl & "   " & vbcrlf
js_xl = js_xl & "   cellVals[0] = parseFloat(cellVals[0])" & vbcrlf
js_xl = js_xl & "   cellVals[1] = parseFloat(cellVals[1])" & vbcrlf
js_xl = js_xl & "   " & vbcrlf
js_xl = js_xl & "   if(cellVals[0]==0)" & vbcrlf
js_xl = js_xl & "      return(0)" & vbcrlf
js_xl = js_xl & "   if(cellVals[1]==0)" & vbcrlf
js_xl = js_xl & "      return('#DIV/0!')" & vbcrlf
js_xl = js_xl & "      " & vbcrlf
js_xl = js_xl & "   if(cellVals[0]*cellVals[1]<0)" & vbcrlf
js_xl = js_xl & "      return('#NUM!')" & vbcrlf
js_xl = js_xl & "   " & vbcrlf
js_xl = js_xl & "   var sign = cellVals[0]/Math.abs(cellVals[0])" & vbcrlf
js_xl = js_xl & "      " & vbcrlf
js_xl = js_xl & "   return sign*Math.floor(Math.abs(cellVals[0]/cellVals[1]))*Math.abs(cellVals[1])" & vbcrlf
js_xl = js_xl & "}" & vbcrlf
```

From Excel Macro

```
    js_xl = js_xl & "function xl_acosh(cellVals)" & vbCrLf
    js_xl = js_xl & "{" & vbCrLf
    js_xl = js_xl & "   if ((cellVals+'').length > 0 && !isNaN(cellVals))" & vbCrLf
    js_xl = js_xl & "      if (parseFloat(cellVals)>=1.0)" & vbCrLf
    js_xl = js_xl & "         return (Math.log(parseFloat(cellVals) + Math.sqrt(cellVals*cellVals - 1)))" & vbCrLf
    js_xl = js_xl & "     else" & vbCrLf
    js_xl = js_xl & "         return '#NUM!'" & vbCrLf
    js_xl = js_xl & "   else" & vbCrLf
    js_xl = js_xl & "      if((cellVals+'').length==0)" & vbCrLf
    js_xl = js_xl & "         return '#NUM!'" & vbCrLf
    js_xl = js_xl & "      else" & vbCrLf
    js_xl = js_xl & "         return '#VALUE!'" & vbCrLf
    js_xl = js_xl & "}" & vbCrLf
```

To Notepad

```
function xl_acosh(cellVals)
{
  if ((cellVals+'').length > 0 && !isNaN(cellVals))
    if (parseFloat(cellVals)>=1.0)
      return (Math.log(parseFloat(cellVals) + Math.sqrt(cellVals*cellVals - 1)))
   else
      return '#NUM!'
  else
    if((cellVals+'').length==0)
      return '#NUM!'
    else
      return '#VALUE!'
}
```

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!a	!A	!	33
"a	"A	!"	34
#a	#A	!"#	35
$a	$A	!"#$	36
%a	%A	!"#$%	37
&a	&A	!"#$%&	38
'a	'A	!"#$%&'	39
(a	(A	!"#$%&'(	40
)a	)A	!"#$%&'()	41
*a	*A	!"#$%&'()*	42
+a	+A	!"#$%&'()*	43
,a	,A	!"#$%&'()*	44
-a	-A	!"#$%&'()*	45
.a	.A	!"#$%&'()*	46
/a	/A	!"#$%&'()*	47
0a	0A	!"#$%&'()*	48
1a	1A	!"#$%&'()*	49
2a	2A	!"#$%&'()*	50

3a	3A	!"#$%&'()*	51
4a	4A	!"#$%&'()*	52
5a	5A	!"#$%&'()*	53
6a	6A	!"#$%&'()*	54
7a	7A	!"#$%&'()*	55
8a	8A	!"#$%&'()*	56
9a	9A	!"#$%&'()*	57
:a	:A	!"#$%&'()*	58
;a	;A	!"#$%&'()*	59
<a	<A	!"#$%&'()*	60
=a	=A	!"#$%&'()*	61
>a	>A	!"#$%&'()*	62
?a	?A	!"#$%&'()*	63
@a	@A	!"#$%&'()*	64
Aa	Aa	!"#$%&'()*	64
Ba	Ba	!"#$%&'()*	64
Ca	Ca	!"#$%&'()*	64
Da	Da	!"#$%&'()*	64
Ea	Ea	!"#$%&'()*	64
Fa	Fa	!"#$%&'()*	64
Ga	Ga	!"#$%&'()*	64
Ha	Ha	!"#$%&'()*	64
Ia	Ia	!"#$%&'()*	64
Ja	Ja	!"#$%&'()*	64
Ka	Ka	!"#$%&'()*	64
La	La	!"#$%&'()*	64
Ma	Ma	!"#$%&'()*	64
Na	Na	!"#$%&'()*	64
Oa	Oa	!"#$%&'()*	64
Pa	Pa	!"#$%&'()*	64
Qa	Qa	!"#$%&'()*	64
Ra	Ra	!"#$%&'()*	64
Sa	Sa	!"#$%&'()*	64
Ta	Ta	!"#$%&'()*	64
Ua	Ua	!"#$%&'()*	64
Va	Va	!"#$%&'()*	64
Wa	Wa	!"#$%&'()*	64
Xa	Xa	!"#$%&'()*	64
Ya	Ya	!"#$%&'()*	64
Za	Za	!"#$%&'()*	64
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\a	\A	!"#$%&'()*	66
]a	]A	!"#$%&'()*	67
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_a	_A	!"#$%&'()*	69
`a	`A	!"#$%&'()*	70
aa	Aa	!"#$%&'()*	70
ba	Ba	!"#$%&'()*	70
ca	Ca	!"#$%&'()*	70
da	Da	!"#$%&'()*	70
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ga	Ga	!"#$%&'()*	70
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la	La	!"#$%&'()*	70
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pa	Pa	!"#$%&'()*	70
qa	Qa	!"#$%&'()*	70
ra	Ra	!"#$%&'()*	70
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Functions	Type	Description Total: 335 Done: 97	Complete?	Excel
-	Operator		Yes	
%	Operator		Yes	
&	Operator		Yes	
*	Operator		Yes	
/	Operator		Yes	
^	Operator		Yes	
+	Operator		Yes	
<	Operator		Yes	
<=	Operator		Yes	
>	Operator		Yes	
>=	Operator		Yes	
ABS	Math & Trig	Returns the absolute value of a number	Yes	ABS(number)
ACCRINT	Financial	Returns the accrued interest for a security that pays periodic interest		
ACCRINTM	Financial	Returns the accrued interest for a security that pays interest at maturity		
ACOS	Math & Trig	Returns the arccosine of a number	Yes	ACOS(number)
ACOSH	Math & Trig	Returns the inverse hyperbolic cosine of a number	7/13/1998	
ADDRESS	Lookup & Reference	Returns a reference as text to a single cell in a worksheet	9/2/1998	
AMORDEGRC	Financial	Returns the depreciation for each accounting period		
AMORLINC	Financial	Returns the depreciation for each accounting period		
AND	Logical	Returns TRUE if all its arguments are TRUE	7/24/1998	
AREAS	Lookup & Reference	Returns the number of areas in a reference		
ASIN	Math & Trig	Returns the arcsine of a number	Yes	ASIN(number)
ASINH	Math & Trig	Returns the inverse hyperbolic sine of a number	7/13/1998	
ATAN	Math & Trig	Returns the arctangent of a number	Yes	ATAN(number)
ATAN2	Math & Trig	Returns the arctangent from x- and y- coordinates	Yes	ATAN2(x_num,y_num)
ATANH	Math & Trig	Returns the inverse hyperbolic tangent of a number	7/13/1998	
AVEDEV	Statistical	Returns the average of the absolute deviations of data points from their mean		
AVERAGE	Statistical	Returns the average of its arguments	Yes	
AVERAGEA	Statistical	Returns the average of its arguments, including numbers, text, and logical values	Yes	
BESSELI	Engineering	Returns the modified Bessel function In(x)		
BESSELJ	Engineering	Returns the Bessel function Jn(x)		
BESSELK	Engineering	Returns the modified Bessel function Kn(x)		
BESSELY	Engineering	Returns the Bessel function Yn(x)		
BETADIST	Statistical	Returns the cumulative beta probability density function		
BETAINV	Statistical	Returns the inverse of the cumulative beta probability density function		
BIN2DEC	Engineering	Converts a binary number to decimal		
BIN2HEX	Engineering	Converts a binary number to hexadecimal		
BIN2OCT	Engineering	Converts a binary number to octal		
BINOMDIST	Statistical	Returns the individual term binomial distribution probability		

CEILING	Math & Trig	Rounds a number to the nearest integer or to the nearest multiple of significance	8/10/1999	CEILING(number,significance)
CELL	Information	Returns information about the formatting, location, or contents of a cell		
CHAR	Text	Returns the character specified by the code number		CHAR(int)
CHIDIST	Statistical	Returns the one-tailed probability of the chi-squared distribution		
CHIINV	Statistical	Returns the inverse of the one-tailed probability of the chi-squared distribution		
CHITEST	Statistical	Returns the test for independence		
CHOOSE	Lookup & Reference	Chooses a value from a list of values	Yes	
CLEAN	Text	Removes all nonprintable characters from text		
CODE	Text	Returns a numeric code for the first character in a text string		CODE(string)
COLUMN	Lookup & Reference	Returns the column number of a reference	9/2/1998	
COLUMNS	Lookup & Reference	Returns the number of columns in a reference		
COMBIN	Math & Trig	Returns the number of combinations for a given number of objects		
COMPLEX	Engineering	Converts real and imaginary coefficients into a complex number		
CONCATENATE	Text	Joins several text items into one text item	7/5/1998	
CONFIDENCE	Statistical	Returns the confidence interval for a population mean		
CONVERT	Engineering	Converts a number from one measurement system to another		
CORREL	Statistical	Returns the correlation coefficient between two data sets		
COS	Math & Trig	Returns the cosine of a number	Yes	COS(number)
COSH	Math & Trig	Returns the hyperbolic cosine of a number	Yes	
COUNT	Statistical	Counts how many numbers are in the list of arguments		
COUNTA	Statistical	Counts how many values are in the list of arguments		
COUNTBLANK	Information	Counts the number of blank cells within a range	8/27/1998	
COUNTIF	Math & Trig	Counts the number of nonblank cells within a range that meet the given criteria		
COUPDAYBS	Financial	Returns the number of days from the beginning of the coupon period to the settlement date		
COUPDAYS	Financial	Returns the number of days in the coupon period that contains the settlement date		
COUPDAYSNC	Financial	Returns the number of days from the settlement date to the next coupon date		
COUPNCD	Financial	Returns the next coupon date after the settlement date		
COUPNUM	Financial	Returns the number of coupons payable between the settlement date and maturity date		
COUPPCD	Financial	Returns the previous coupon date before the settlement date		
COVAR	Statistical	Returns covariance, the average of the products of paired deviations		
CRITBINOM	Statistical	Returns the smallest value for which the cumulative binomial distribution is less than or equal to a criterion value		
CUMIPMT	Financial	Returns the cumulative interest paid between two periods		
CUMPRINC	Financial	Returns the cumulative principal paid on a loan between two periods		
DATE	Date & Time	Returns the serial number of a particular date		
DATEVALUE	Date & Time	Converts a date in the form of text to a serial number		
DAVERAGE	Database	Returns the average of selected database entries		

DAY	Date & Time	Converts a serial number to a day of the month	
DAYS360	Date & Time	Calculates the number of days between two dates based on a 360-day year	
DB	Financial	Returns the depreciation of an asset for a specified period using the fixed-declining balance method	8/3/1998
DCOUNT	Database	Counts the cells that contain numbers in a database	
DCOUNTA	Database	Counts nonblank cells in a database	
DDB	Financial	Returns the depreciation of an asset for a specified period using the double-declining balance method or some other method you specify	8/4/1998
DEC2BIN	Engineering	Converts a decimal number to binary	
DEC2HEX	Engineering	Converts a decimal number to hexadecimal	
DEC2OCT	Engineering	Converts a decimal number to octal	
DEGREES	Math & Trig	Converts radians to degrees	Yes
DELTA	Engineering	Tests whether two values are equal	
DEVSQ	Statistical	Returns the sum of squares of deviations	
DGET	Database	Extracts from a database a single record that matches the specified criteria	
DISC	Financial	Returns the discount rate for a security	
DMAX	Database	Returns the maximum value from selected database entries	
DMIN	Database	Returns the minimum value from selected database entries	
DOLLAR	Text	Converts a number to text, using currency format	
DOLLARDE	Financial	Converts a dollar price, expressed as a fraction, into a dollar price, expressed as a decimal number	
DOLLARFR	Financial	Converts a dollar price, expressed as a decimal number, into a dollar price, expressed as a fraction	
DPRODUCT	Database	Multiplies the values in a particular field of records that match the criteria in a database	
DSTDEV	Database	Estimates the standard deviation based on a sample of selected database entries	
DSTDEVP	Database	Calculates the standard deviation based on the entire population of selected database entries	
DSUM	Database	Adds the numbers in the field column of records in the database that match the criteria	
DURATION	Financial	Returns the annual duration of a security with periodic interest payments	
DVAR	Database	Estimates variance based on a sample from selected database entries	
DVARP	Database	Calculates variance based on the entire population of selected database entries	
EDATE	Date & Time	Returns the serial number of the date that is the indicated number of months before or after the start date	
EFFECT	Financial	Returns the effective annual interest rate	
EOMONTH	Date & Time	Returns the serial number of the last day of the month before or after a specified number of months	
ERF	Engineering	Returns the error function	

ERFC	Engineering	Returns the complementary error function		
ERROR.TYPE	Information	Returns a number corresponding to an error type		
EVEN	Math & Trig	Rounds a number up to the nearest even integer		
EXACT	Text	Checks to see if two text values are identical	7/20/1998	
EXP	Math & Trig	Returns e raised to the power of a given number	Yes	EXP(number)
EXPONDIST	Statistical	Returns the exponential distribution		
FACT	Math & Trig	Returns the factorial of a number	7/2/1998	
FACTDOUBLE	Math & Trig	Returns the double factorial of a number		
FALSE	Logical	Returns the logical value FALSE		
FDIST	Statistical	Returns the F probability distribution		
FIND	Text	Finds one text value within another (case-sensitive)	7/20/1998	
FINV	Statistical	Returns the inverse of the F probability distribution		
FISHER	Statistical	Returns the Fisher transformation		
FISHERINV	Statistical	Returns the inverse of the Fisher transformation		
FIXED	Text	Formats a number as text with a fixed number of decimals	7/7/1998	
FLOOR	Math & Trig	Rounds a number down, toward zero	8/10/1999	FLOOR(number, significance)
FORECAST	Statistical	Returns a value along a linear trend		
FREQUENCY	Statistical	Returns a frequency distribution as a vertical array		
FTEST	Statistical	Returns the result of an F-test		
FV	Financial	Returns the future value of an investment	7/17/1998	
FVSCHEDULE	Financial	Returns the future value of an initial principal after applying a series of compound interest rates		
GAMMADIST	Statistical	Returns the gamma distribution		
GAMMAINV	Statistical	Returns the inverse of the gamma cumulative distribution		
GAMMALN	Statistical	Returns the natural logarithm of the gamma function, G(x)		
GCD	Math & Trig	Returns the greatest common divisor		
GEOMEAN	Statistical	Returns the geometric mean		
GESTEP	Engineering	Tests whether a number is greater than a threshold value		
GETPIVOTDATA	Database	Returns data stored in a PivotTable		
GROWTH	Statistical	Returns values along an exponential trend		
HARMEAN	Statistical	Returns the harmonic mean		
HEX2BIN	Engineering	Converts a hexadecimal number to binary		
HEX2DEC	Engineering	Converts a hexadecimal number to decimal		
HEX2OCT	Engineering	Converts a hexadecimal number to octal		
HLOOKUP	Lookup & Reference	Looks in the top row of an array and returns the value of the indicated cell		
HOUR	Date & Time	Converts a serial number to an hour		
HYPERLINK	Lookup & Reference	Creates a shortcut or jump that opens a document stored on a network server, an intranet, or the Internet		
HYPGEOMDIST	Statistical	Returns the hypergeometric distribution		
IF	Logical	Specifies a logical test to perform	Yes	

IMABS	Engineering	Returns the absolute value (modulus) of a complex number		
IMAGINARY	Engineering	Returns the imaginary coefficient of a complex number		
IMARGUMENT	Engineering	Returns the argument theta, an angle expressed in radians		
IMCONJUGATE	Engineering	Returns the complex conjugate of a complex number		
IMCOS	Engineering	Returns the cosine of a complex number		
IMDIV	Engineering	Returns the quotient of two complex numbers		
IMEXP	Engineering	Returns the exponential of a complex number		
IMLN	Engineering	Returns the natural logarithm of a complex number		
IMLOG10	Engineering	Returns the base-10 logarithm of a complex number		
IMLOG2	Engineering	Returns the base-2 logarithm of a complex number		
IMPOWER	Engineering	Returns a complex number raised to an integer power		
IMPRODUCT	Engineering	Returns the product of two complex numbers		
IMREAL	Engineering	Returns the real coefficient of a complex number		
IMSIN	Engineering	Returns the sine of a complex number		
IMSQRT	Engineering	Returns the square root of a complex number		
IMSUB	Engineering	Returns the difference of two complex numbers		
IMSUM	Engineering	Returns the sum of complex numbers		

INDEX	Lookup & Reference	Uses an index to choose a value from a reference or array	7/30/1998	
INDIRECT	Lookup & Reference	Returns a reference indicated by a text value	8/21/1998	
INFO	Information	Returns information about the current operating environment		
INT	Math & Trig	Rounds a number down to the nearest integer	Yes	INT()
INTERCEPT	Statistical	Returns the intercept of the linear regression line		
INTRATE	Financial	Returns the interest rate for a fully invested security		
IPMT	Financial	Returns the interest payment for an investment for a given period	8/26/1998	
IRR	Financial	Returns the internal rate of return for a series of cash flows		
ISBLANK	Information	Returns TRUE if the value is blank	Yes	
ISERR	Information	Returns TRUE if the value is any error value except #N/A		
ISERROR	Information	Returns TRUE if the value is any error value		
ISEVEN	Information	Returns TRUE if the number is even		
ISLOGICAL	Information	Returns TRUE if the value is a logical value		
ISNA	Information	Returns TRUE if the value is the #N/A error value		
ISNONTEXT	Information	Returns TRUE if the value is not text		
ISNUMBER	Information	Returns TRUE if the value is a number		
ISODD	Information	Returns TRUE if the number is odd		
ISREF	Information	Returns TRUE if the value is a reference		
ISTEXT	Information	Returns TRUE if the value is text		
KURT	Statistical	Returns the kurtosis of a data set		
LARGE	Statistical	Returns the k-th largest value in a data set		

LCM	Math & Trig	Returns the least common multiple		
LEFT	Text	Returns the leftmost characters from a text value	7/4/1998	
LEN	Text	Returns the number of characters in a text string	7/4/1998	
LINEST	Statistical	Returns the parameters of a linear trend		
LN	Math & Trig	Returns the natural logarithm of a number	Yes	LN(number)
LOG	Math & Trig	Returns the logarithm of a number to a specified base	Yes	
LOG10	Math & Trig	Returns the base-10 logarithm of a number	Yes	
LOGEST	Statistical	Returns the parameters of an exponential trend		
LOGINV	Statistical	Returns the inverse of the lognormal distribution		
LOGNORMDIST	Statistical	Returns the cumulative lognormal distribution		
LOOKUP	Lookup & Reference	Looks up values in a vector or array		
LOWER	Text	Converts text to lowercase	7/4/1998	
MATCH	Lookup & Reference	Looks up values in a reference or array		
MAX	Statistical	Returns the maximum value in a list of arguments	Yes	MAX(num1, num2, num3…)
MAXA	Statistical	Returns the maximum value in a list of arguments, including numbers, text, and logical values		
MDETERM	Math & Trig	Returns the matrix determinant of an array		
MDURATION	Financial	Returns the Macauley modified duration for a security with an assumed par value of $100		
MEDIAN	Statistical	Returns the median of the given numbers		
MID	Text	Returns a specific number of characters from a text string starting at the position you specify	7/4/1998	
MIN	Statistical	Returns the minimum value in a list of arguments	Yes	MIN(num1, num2, num3…)
MINA	Statistical	Returns the smallest value in a list of arguments, including numbers, text, and logical values		
MINUTE	Date & Time	Converts a serial number to a minute		
MINVERSE	Math & Trig	Returns the matrix inverse of an array		
MIRR	Financial	Returns the internal rate of return where positive and negative cash flows are financed at different rates		
MMULT	Math & Trig	Returns the matrix product of two arrays	7/30/1998	
MOD	Math & Trig	Returns the remainder from division	7/2/1998	
MODE	Statistical	Returns the most common value in a data set		
MONTH	Date & Time	Converts a serial number to a month		
MROUND	Math & Trig	Returns a number rounded to the desired multiple		
MULTINOMIAL	Math & Trig	Returns the multinomial of a set of numbers		
N	Information	Returns a value converted to a number		
NA	Information	Returns the error value #N/A		
NEGBINOMDIST	Statistical	Returns the negative binomial distribution		
NETWORKDAYS	Date & Time	Returns the number of whole workdays between two dates		
NOMINAL	Financial	Returns the annual nominal interest rate		
NORMDIST	Statistical	Returns the normal cumulative distribution		

NORMINV	Statistical	Returns the inverse of the normal cumulative distribution		
NORMSDIST	Statistical	Returns the standard normal cumulative distribution		
NORMSINV	Statistical	Returns the inverse of the standard normal cumulative distribution		
NOT	Logical	Reverses the logic of its argument	Yes	
NOW	Date & Time	Returns the serial number of the current date and time		
NPER	Financial	Returns the number of periods for an investment	7/17/1998	
NPV	Financial	Returns the net present value of an investment based on a series of periodic cash flows and a discount rate	8/26/1998	
OCT2BIN	Engineering	Converts an octal number to binary		
OCT2DEC	Engineering	Converts an octal number to decimal		
OCT2HEX	Engineering	Converts an octal number to hexadecimal		
ODD	Math & Trig	Rounds a number up to the nearest odd integer		
ODDFPRICE	Financial	Returns the price per $100 face value of a security with an odd first period		
ODDFYIELD	Financial	Returns the yield of a security with an odd first period		
ODDLPRICE	Financial	Returns the price per $100 face value of a security with an odd last period		
ODDLYIELD	Financial	Returns the yield of a security with an odd last period		
OFFSET	Lookup & Reference	Returns a reference offset from a given reference		
OR	Logical	Returns TRUE if any argument is TRUE	7/13/1998	
PEARSON	Statistical	Returns the Pearson product moment correlation coefficient		
PERCENTILE	Statistical	Returns the k-th percentile of values in a range		
PERCENTRANK	Statistical	Returns the percentage rank of a value in a data set		
PERMUT	Statistical	Returns the number of permutations for a given number of objects		
PI	Math & Trig	Returns the value of Pi	Yes	PI()
PMT	Financial	Returns the periodic payment for an annuity	7/17/1998	
POISSON	Statistical	Returns the Poisson distribution		
POWER	Math & Trig	Returns the result of a number raised to a power	Yes	
PPMT	Financial	Returns the payment on the principal for an investment for a given period	8/26/1998	
PRICE	Financial	Returns the price per $100 face value of a security that pays periodic interest		
PRICEDISC	Financial	Returns the price per $100 face value of a discounted security		
PRICEMAT	Financial	Returns the price per $100 face value of a security that pays interest at maturity		
PROB	Statistical	Returns the probability that values in a range are between two limits		
PRODUCT	Math & Trig	Multiplies its arguments		
PROPER	Text	Capitalizes the first letter in each word of a text value	7/27/1998	
PV	Financial	Returns the present value of an investment	7/13/1998	
QUARTILE	Statistical	Returns the quartile of a data set		
QUOTIENT	Math & Trig	Returns the integer portion of a division		
RADIANS	Math & Trig	Converts degrees to radians	Yes	
RAND	Math & Trig	Returns a random number between 0 and 1	Yes	RAND()

RANDBETWEEN	Math & Trig	Returns a random number between the numbers you specify	7/13/1998	
RANK	Statistical	Returns the rank of a number in a list of numbers		
RATE	Financial	Returns the interest rate per period of an annuity	7/17/1998	
RECEIVED	Financial	Returns the amount received at maturity for a fully invested security		
REPLACE	Text	Replaces characters within text	7/27/1998	
REPT	Text	Repeats text a given number of times	7/18/1998	
RIGHT	Text	Returns the rightmost characters from a text value	7/5/1998	
ROMAN	Math & Trig	Converts an arabic numeral to roman, as text		
ROUND	Math & Trig	Rounds a number to a specified number of digits	Yes	ROUND(number,num_digits)
ROUNDDOWN	Math & Trig	Rounds a number down, toward zero		
ROUNDUP	Math & Trig	Rounds a number up, away from zero		
ROW	Lookup & Reference	Returns the row number of a reference	9/2/1998	
ROWS	Lookup & Reference	Returns the number of rows in a reference	4/15/1999	
RSQ	Statistical	Returns the square of the Pearson product moment correlation coefficient		
SEARCH	Text	Finds one text value within another (not case-sensitive)	7/20/1998	
SECOND	Date & Time	Converts a serial number to a second		
SERIESSUM	Math & Trig	Returns the sum of a power series based on the formula		
SIGN	Math & Trig	Returns the sign of a number	7/1/1998	
SIN	Math & Trig	Returns the sine of the given angle	Yes	SIN(number)
SINH	Math & Trig	Returns the hyperbolic sine of a number	7/1/1998	
SKEW	Statistical	Returns the skewness of a distribution		
SLN	Financial	Returns the straight-line depreciation of an asset for one period	8/4/1998	
SLOPE	Statistical	Returns the slope of the linear regression line		
SMALL	Statistical	Returns the k-th smallest value in a data set		
SQRT	Math & Trig	Returns a positive square root	Yes	SQRT(number)
SQRTPI	Math & Trig	Returns the square root of (number * Pi)	7/1/1998	
STANDARDIZE	Statistical	Returns a normalized value		
STDEV	Statistical	Estimates standard deviation based on a sample	Yes	
STDEVA	Statistical	Estimates standard deviation based on a sample, including numbers, text, and logical values		
STDEVP	Statistical	Calculates standard deviation based on the entire population		
STDEVPA	Statistical	Calculates standard deviation based on the entire population, including numbers, text, and logical values		
STEYX	Statistical	Returns the standard error of the predicted y-value for each x in the regression		
SUBSTITUTE	Text	Substitutes new text for old text in a text string	7/28/1998	
SUBTOTAL	Math & Trig	Returns a subtotal in a list or database	Yes	SQRTPI(num)
SUM	Math & Trig	Adds its arguments	Yes	
SUMIF	Math & Trig	Adds the cells specified by a given criteria		
SUMPRODUCT	Math & Trig	Returns the sum of the products of corresponding array components		
SUMSQ	Math & Trig	Returns the sum of the squares of the arguments	7/2/1998	

SUMX2MY2	Math & Trig	Returns the sum of the difference of squares of corresponding values in two arrays		
SUMX2PY2	Math & Trig	Returns the sum of the sum of squares of corresponding values in two arrays		
SUMXMY2	Math & Trig	Returns the sum of squares of differences of corresponding values in two arrays		
SYD	Financial	Returns the sum-of-years' digits depreciation of an asset for a specified period	8/26/1998	
T	Text	Converts its arguments to text		
TAN	Math & Trig	Returns the tangent of a number	Yes	TAN(number)
TANH	Math & Trig	Returns the hyperbolic tangent of a number	7/2/1998	
TBILLEQ	Financial	Returns the bond-equivalent yield for a Treasury bill		
TBILLPRICE	Financial	Returns the price per $100 face value for a Treasury bill		
TBILLYIELD	Financial	Returns the yield for a Treasury bill		
TDIST	Statistical	Returns the Student's t-distribution		
TEXT	Text	Formats a number and converts it to text		
TIME	Date & Time	Returns the serial number of a particular time		
TIMEVALUE	Date & Time	Converts a time in the form of text to a serial number		
TINV	Statistical	Returns the inverse of the Student's t-distribution		
TODAY	Date & Time	Returns the serial number of today's date		
TRANSPOSE	Lookup & Reference	Returns the transpose of an array		
TREND	Statistical	Returns values along a linear trend		
TRIM	Text	Removes spaces from text	7/18/1998	
TRIMMEAN	Statistical	Returns the mean of the interior of a data set		
TRUE	Logical	Returns the logical value TRUE		
TRUNC	Math & Trig	Truncates a number to an integer	7/2/1998	
TTEST	Statistical	Returns the probability associated with a Student's t-test		
TYPE	Information	Returns a number indicating the data type of a value		
UPPER	Text	Converts text to uppercase	7/4/1998	
VALUE	Text	Converts a text argument to a number		
VAR	Statistical	Estimates variance based on a sample		
VARA	Statistical	Estimates variance based on a sample, including numbers, text, and logical values		
VARP	Statistical	Calculates variance based on the entire population		
VARPA	Statistical	Calculates variance based on the entire population, including numbers, text, and logical values		
VDB	Financial	Returns the depreciation of an asset for a specified or partial period using a declining balance method	8/26/1998	
VLOOKUP	Lookup & Reference	Looks in the first column of an array and moves across the row to return the value of a cell	8/31/1998	
WEEKDAY	Date & Time	Converts a serial number to a day of the week		
WEIBULL	Statistical	Returns the Weibull distribution		

WORKDAY	Date & Time	Returns the serial number of the date before or after a specified number of workdays
XIRR	Financial	Returns the internal rate of return for a schedule of cash flows that is not necessarily periodic
XNPV	Financial	Returns the net present value for a schedule of cash flows that is not necessarily periodic
YEAR	Date & Time	Converts a serial number to a year
YEARFRAC	Date & Time	Returns the year fraction representing the number of whole days between start_date and end_date
YIELD	Financial	Returns the yield on a security that pays periodic interest
YIELDDISC	Financial	Returns the annual yield for a discounted security. For example, a Treasury bill
YIELDMAT	Financial	Returns the annual yield of a security that pays interest at maturity
ZTEST	Statistical	Returns the two-tailed P-value of a z-test

Javascript	Comments
Math.abs(number)	
	Add-in
	Add-in
Math.acos(number)	
	Always returns A1 style without $ signs
	Add-in
	Add-in
Math.asin(number)	
Math.atan(number)	
Math.atan2(y_num,x_num)	Axes are swapped!
xl_average	
xl_averagea	

Math.ceil(number)	
unescape(%int)	different character set
escape(string)	Excel only looks at the first string, regardless
	Will never return an array if a range of more than 1 cell is entered
xl_concatenate	
Math.cos(number)	
xl_cosh	
	Add-in
	Add-in
	Add-in
	Add-in
	Add-in
	Add-in
	Add-in
	Add-in
	Add-in

180/Math.PI*

Add-in

Not really worth it. Could do it, but no other cells could use the value then because it would be a string

Add-in

Add-in

Add-in

Add-in

Math.exp(number)

xl_fact

LIMITATION: Never returns commas! (because then it will not think it is a number, unlike excel)

Math.floor(number)

Add-in

conditional operator

	Accounts for arrays as returned by other functions (e.g. MMULT) and for single area references. Does not account for arrays entered as {} or multi area references DOES NOT SUPPORT R1C1 style references.
Math.floor()	JS parseInt returns different values than INT()
	Add-in

xl_left
xl_len

Math.log(number)
xl_log
(1/Math.LN10)*Math.log

xl_lower

Math.max(num1, num2) JS only takes two parameters, NOT compatible

Add-in

xl_mid
Math.min(num1, num2) JS only takes two parameters, NOT compatible

xl_mod

Add-in

Add-in
Add-in
Add-in
Add-in

Math.PI

Math.pow()

Add-in
Add-in

Add-in

does not change case of
char(131,138,140,154,156,159,192-214,216-246,248-255)
Works ok before and after though.

Math.PI/180*
Math.random()

	Add-in
xl_right	
xl_round	Not compatible
	Will never return an array if a range of more than 1 cell is entered
	Does not accept arrays
	wildcard values, * and ? Not supported
xl_sign	
Math.sin(number)	
xl_sinh	
Math.sqrt(number)	
xl_sqrtpi	
xl_stdev	
Math.sqrt(Math.PI*number)	
xl_sum	
xl_sumsq	

Math.tan(number)

xl_tanh

Add-in

Add-in

Add-in

xl_trunc

Does not convert true and false values to numeric equivs. True for all functions

Add-in

Add-in

Add-in
Add-in
Add-in

Math Constants

Math.E	2.718282	=exp(1)
Math.LN2	0.693147	=ln(2)
Math.LN10	2.302585	=ln(10)
Math.LOG2E	1.442	base 2 log of e
Math.LOG10E	0.434294	base 10 log of e
Math.SQRT1_2	0.707107	=SQRT(1/2)
Math.SQRT2	1.414214	=SQRT(2)

ID	Source
65535	xl2Form:main

Description
"Cell: " & getCellAddress(thisCell) & " contains an error. The spreadsheet will not be converted

You can ignore this page!