

# Appendix A Functions

This appendix provides a complete alphabetical reference to the functions.

<b>ABS</b>	<b>Description</b>	Returns the absolute value of a number.
	<b>Syntax</b>	<b>ABS</b> ( <i>number</i> ) <i>number</i> is any integer.
	<b>See Also</b>	<b>SIGN</b> function
	<b>Examples</b>	ABS (-1) returns 1 ABS (1) returns 1
<b>ACOS</b>	<b>Description</b>	Returns the arc cosine of a number.
	<b>Syntax</b>	<b>ACOS</b> ( <i>number</i> ) <i>number</i> is the cosine of the angle. The cosine can range from 1 to -1.
	<b>Remarks</b>	The resulting angle is returned in radians (from 0 to $\pi$ ).
	<b>Examples</b>	ACOS (.5) returns 1.05 ACOS (.2) returns 1.77
<b>AND</b>	<b>Description</b>	Returns True if all arguments are true; returns False if at least one argument is false.
	<b>Syntax</b>	<b>AND</b> ( <i>logical_list</i> ) <i>logical_list</i> is a list of conditions separated by commas. You can include as many as 30 conditions in the list.
	<b>See Also</b>	<b>IF</b> , <b>NOT</b> , and <b>OR</b> functions
	<b>Examples</b>	AND (1+1=2, 5+5=10) returns True because both arguments are true.
<b>AVERAGE</b>	<b>Description</b>	Returns the average of the supplied numbers. The result of <b>AVERAGE</b> is also known as the arithmetic mean.
	<b>Syntax</b>	<b>AVERAGE</b> ( <i>number_list</i> ) <i>number_list</i> is a list of numbers separated by commas. As many as 30 numbers can be included in the list.
	<b>See Also</b>	<b>MIN</b> and <b>MAX</b> functions
	<b>Examples</b>	AVERAGE (5, 6, 8, 14) returns 8,25
<b>CEILING</b>	<b>Description</b>	Rounds a number up to the nearest multiple of a specified significance.
	<b>Syntax</b>	<b>CEILING</b> ( <i>number</i> , <i>significance</i> ) <i>number</i> is the value to round. <i>significance</i> is the multiple to which to round.
	<b>Remarks</b>	Regardless of the sign of the number, the value is rounded up, away from zero. If <i>number</i> is an exact multiple of <i>significance</i> , no rounding occurs.
	<b>See Also</b>	<b>EVEN</b> , <b>FLOOR</b> , <b>INT</b> , <b>ODD</b> , <b>ROUND</b> , and <b>TRUNC</b> functions

**Examples** CEILING(1.23459, .05) returns 1.25  
 CEILING(-148.24, -2) returns -150

**EVEN** **Description** Rounds the specified number up to the nearest even integer.  
**Syntax** **EVEN**(*number*)  
*number* is any number, a formula that evaluates to a number, or a reference to a cell that contains a number.  
**See Also** **CEILING, FLOOR, INT, ODD, ROUND, and TRUNC** functions  
**Examples** EVEN(2.5) returns 4  
 EVEN(2030.45) returns 2032

**EXP** **Description** Returns e raised to the specified power. The constant e is 2.71828182845904 (the base of the natural logarithm).  
**Syntax** **EXP**(*number*)  
*number* is any number as the exponent.  
**See Also** **LN** and **LOG** functions  
**Examples** EXP(2.5) returns 12.18  
 EXP(3) returns 20.09

**FLOOR** **Description** Rounds a number down to the nearest multiple of a specified significance.  
**Syntax** **FLOOR**(*number, significance*)  
*number* is the value to round.  
*significance* is the multiple to which to round.  
**Remarks** Regardless of the sign of the number, the value is rounded down, toward zero. If *number* is an exact multiple of *significance*, no rounding occurs.  
**See Also** **CEILING, EVEN, INT, ODD, ROUND, and TRUNC** functions  
**Examples** FLOOR(1.23459, .05) returns 1.2  
 FLOOR(-148.24, -2) returns -148

**HOUR** **Description** Returns the hour component of the specified time in 24-hour format.  
**Syntax** **HOUR**(*serial\_number*)  
*serial\_number* is the time as a serial number. The decimal portion of the number represents time as a fraction of the day.  
**Remarks** The result is an integer ranging from 0 (12:00 AM) to 23 (11:00 PM).  
**See Also** **MINUTE** function  
**Examples** HOUR(34259.4) returns 9  
 HOUR(34619.976) returns 23

**IF** **Description** Tests the condition and returns the specified value.  
**Syntax** **IF**(*condition, true\_value, false\_value*)  
*condition* is any logical expression.  
*true\_value* is the value to be returned if *condition* evaluates to True.  
*false\_value* is the value to be returned if *condition* evaluates to False.  
**See Also** **AND, NOT, and OR** functions

**Example** to show in a block the result of  $a/b$  only if  $a$  is greater than 500 and  $b$  is different from 0, the formula will be:  
`If (AND (a > 500, b <> 0); a/b; 0)`

**INT** **Description** Rounds the supplied number down to the nearest integer.  
**Syntax** **INT**(*number*)  
*number* is any real number.  
**See Also** **CEILING**, **FLOOR**, **MOD**, **ROUND**, and **TRUNC** functions  
**Examples** `INT (10.99)` returns 10  
`INT (-10.99)` returns - 11

**IPMT** **Description** Returns the interest payment of an annuity for a given period, based on regular payments and a fixed periodic interest rate.  
**Syntax** **IPMT**(*interest*, *per*, *nper*, *pv*, [*fv*], [*type*])  
*interest* is the fixed periodic interest rate.  
*per* is the period for which to return the interest payment. This number must be between 1 and *nper*.  
*nper* is the number of payments.  
*pv* is the present value, or the lump sum amount the annuity is currently worth.  
*fv* is the future value, or the value after all payments are made. If this argument is omitted, the future value is assumed to be 0.  
*type* indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.  
**Remarks** The units used for *interest* must match those used for *nper*. For example, if the annuity has an 8% annual interest rate over a period of 5 years, specify 8%/12 for *interest* and 5\*12 for *nper*.  
Cash paid out, such as a payment, is shown as a negative number. Cash received, such as a dividend check, is shown as a positive number.  
**See Also** **PMT**, **PPMT**, and **RATE** functions  
**Examples** `IPMT (8%/12, 2, 48, 18000)` returns - 117.87  
`IPMT (8%/12, 2, 48, 18000, 0, 1)` returns -117.09

**LN** **Description** Returns the natural logarithm (based on the constant e) of a number.  
**Syntax** **LN**(*number*)  
*number* is any positive real number.  
**Remarks** **LN** is the inverse of the **EXP** function.  
**See Also** **EXP**, **LOG**, and **LOG10** functions  
**Examples** `LN (12.18)` returns 2.50  
`LN (20.09)` returns 3.00

**LOG** **Description** Returns the logarithm of a number to the specified base.  
**Syntax** **LOG**(*number*, [*base*])  
*number* is any positive real number.  
*base* is the base of the logarithm. Omitting this argument assumes a base of 10.  
**See Also** **EXP**, **LN**, and **LOG10** functions

	<b>Examples</b>	LOG (1) returns 0 LOG (10) returns 1
<b>LOG10</b>	<b>Description</b>	Returns the base-10 logarithm of a number.
	<b>Syntax</b>	<b>LOG10</b> ( <i>number</i> ) <i>number</i> is any positive real number.
	<b>See Also</b>	<b>EXP</b> , <b>LN</b> , and <b>LOG</b> functions
	<b>Examples</b>	LOG10 (260) returns 9.41 LOG10 (100) returns 2
<b>MAX</b>	<b>Description</b>	Returns the largest value in the specified list of numbers.
	<b>Syntax</b>	<b>MAX</b> ( <i>number_list</i> ) <i>number_list</i> is a list of as many as 30 numbers, separated by commas.
	<b>See Also</b>	<b>AVERAGE</b> and <b>MIN</b> functions
	<b>Examples</b>	MAX (50, 100, 150, 500, 200) returns 500
<b>MIN</b>	<b>Description</b>	Returns the smallest value in the specified list of numbers.
	<b>Syntax</b>	<b>MIN</b> ( <i>number_list</i> ) <i>number_list</i> is a list of as many as 30 numbers, separated by commas.
	<b>See Also</b>	<b>AVERAGE</b> and <b>MAX</b> functions
	<b>Examples</b>	MIN (50, 100, 150, 500, 200) returns 50
<b>MINUTE</b>	<b>Description</b>	Returns the minute that corresponds to the supplied date.
	<b>Syntax</b>	<b>MINUTE</b> ( <i>serial_number</i> ) <i>serial_number</i> is the time as a serial number. The decimal portion of the number represents time as a fraction of the day.
	<b>Remarks</b>	The result is an integer ranging from 0 to 59.
	<b>See Also</b>	<b>HOUR</b> function
	<b>Examples</b>	MINUTE (34506.4) returns 36 MINUTE (34399.925) returns 48
<b>MOD</b>	<b>Description</b>	Returns the remainder after dividing a number by a specified divisor.
	<b>Syntax</b>	<b>MOD</b> ( <i>number</i> , <i>divisor</i> ) <i>number</i> is any number. <i>divisor</i> is any non-zero number.
	<b>See Also</b>	<b>INT</b> , <b>ROUND</b> , and <b>TRUNC</b> functions
	<b>Examples</b>	MOD (-23, 3) returns 1 MOD (-23, -3) returns -2
<b>NOT</b>	<b>Description</b>	Returns a logical value that is the opposite of its value.
	<b>Syntax</b>	<b>NOT</b> ( <i>logical</i> ) <i>logical</i> is an expression that returns a logical value (such as, True or False).
	<b>Remarks</b>	If <i>logical</i> is false, <b>NOT</b> returns True. Conversely, if <i>logical</i> is true, <b>NOT</b> returns False.
	<b>See Also</b>	<b>AND</b> , <b>IF</b> , and <b>OR</b> functions

<b>Examples</b>	NOT (TRUE ()) returns False NOT (2*6 = 12) returns False
<b>NPV</b>	<p><b>Description</b> Returns the number of periods of an investment based on regular periodic payments and a fixed interest rate.</p> <p><b>Syntax</b> <b>NPV</b>(<i>interest</i>, <i>pmt</i>, <i>pv</i>, [<i>fv</i>], [<i>type</i>]) <i>interest</i> is the fixed interest rate. <i>pmt</i> is the fixed payment made each period. Generally, <i>pmt</i> includes the principle and interest, not taxes or other fees. <i>pv</i> is the present value, the lump-sum amount that a series of future payments is currently worth. <i>fv</i> is the future value, the balance to attain after the final payment. Omitting this argument assumes a future balance of 0. <i>type</i> indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.</p> <p><b>See Also</b> <b>IPMT</b>, <b>PMT</b>, <b>PPMT</b>, <b>PV</b>, and <b>RATE</b> functions</p> <p><b>Examples</b> NPV(12%/12, -350, -300, 16000, 1) returns 36.67 NPV(1%, -350, -300, 16000) returns 36.9%</p>
<b>NPV</b>	<p><b>Description</b> Returns the net present value of an investment based on a series of periodic payments and a discount rate.</p> <p><b>Syntax</b> <b>NPV</b>(<i>discount_rate</i>, <i>value_list</i>) <i>discount_rate</i> is the rate of discount for one period. <i>value_list</i> is a list of as many as 29 arguments or a reference to a range that contains values that represent payments and income. During calculation, <b>NPV</b> uses the order in which the values appear to determine the order of cash flow.</p> <p><b>Remarks</b> The time span <b>NPV</b> uses for calculation begins one period before the first cash flow date and ends when the last cash flow payment is made. This function is based on future cash flows. When your first cash flow occurs at the beginning of the first period, the first value must be added to the <b>NPV</b> result, not supplied as a value in <i>value_list</i>.</p> <p><b>See Also</b> <b>PV</b> function</p> <p><b>Example</b> NPV(8%, -12000, 3000, 3000, 3000, 7000) returns 811.57</p>
<b>ODD</b>	<p><b>Description</b> Rounds the specified number up to the nearest odd integer.</p> <p><b>Syntax</b> <b>ODD</b>(<i>number</i>) <i>number</i> is any number or a formula that evaluates to a number.</p> <p><b>See Also</b> <b>CEILING</b>, <b>EVEN</b>, <b>FLOOR</b>, <b>INT</b>, <b>ROUND</b>, and <b>TRUNC</b> functions</p> <p><b>Examples</b> ODD (3.5) returns 5 ODD (6) returns 7</p>
<b>OR</b>	<p><b>Description</b> Returns True if at least one of a series of logical arguments is true</p> <p><b>Syntax</b> <b>OR</b>(<i>logical_list</i>) <i>logical_list</i> is a list of conditions separated by commas. You can include as many as 30 conditions in the list.</p> <p><b>See Also</b> <b>AND</b>, <b>IF</b>, and <b>NOT</b> functions</p>

**Example** `OR(1 + 1 = 1, 5 + 5 = 10)` returns True because one of the arguments is true.

<b>PMT</b>	<b>Description</b>	Returns the periodic payment of an annuity, based on regular payments and a fixed periodic interest rate.
	<b>Syntax</b>	<b>PMT</b> ( <i>interest</i> , <i>nper</i> , <i>pv</i> , [ <i>fv</i> ], [ <i>type</i> ]) <i>interest</i> is the fixed periodic interest rate. <i>nper</i> is the number of periods in the annuity. <i>pv</i> is the present value, or the amount the annuity is currently worth. <i>fv</i> is the future value, or the amount the annuity will be worth. When you omit this argument, a future value of 0 is assumed. <i>type</i> indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.
	<b>Remarks</b>	<b>PMT</b> returns only the principal and interest payment, it does not include taxes or other fees.  The units used for interest must match those used for <i>nper</i> . For example, if the annuity has an 8% annual interest rate over a period of 5 years, specify 8%/12 for <i>interest</i> and 5*12 for <i>nper</i> . Cash paid out, such as a payment, is shown as a negative number. Cash received, such as a dividend check, is shown as a positive number.
	<b>See Also</b>	<b>IPMT</b> , <b>NPER</b> , <b>PPMT</b> , <b>PV</b> , and <b>RATE</b> functions
	<b>Examples</b>	<code>PMT(8%/12, 48, 18000)</code> returns -439.43 <code>PMT(8%/12, 48, 18000, 0, 1)</code> returns -436.52
<b>PPMT</b>	<b>Description</b>	Returns the principle paid on an annuity for a given period.
	<b>Syntax</b>	<b>PPMT</b> ( <i>interest</i> , <i>per</i> , <i>nper</i> , <i>pv</i> , [ <i>fv</i> ], [ <i>type</i> ]) <i>interest</i> is the fixed periodic interest rate. <i>per</i> is the period for which to renew the principle. <i>nper</i> is the number of periods in the annuity. <i>pv</i> is the present value, or the amount the annuity is currently worth. <i>fv</i> is the future value, or the amount the annuity will be worth. When you omit this argument, a future value of 0 is assumed. <i>type</i> indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.
	<b>Remarks</b>	The units used for <i>interest</i> must match those used for <i>nper</i> . For example, if the annuity has an 8% annual interest rate over a period of 5 years, specify 8%/12 for <i>interest</i> and 5*12 for <i>nper</i> .
	<b>See Also</b>	<b>IPMT</b> , <b>NPER</b> , <b>PMT</b> , <b>PV</b> , and <b>RATE</b> functions
	<b>Examples</b>	<code>PPMT(8%/12, 2, 48, 18000)</code> returns -321,56 <code>PPMT(8%/12, 2, 48, 18000, 0, 1)</code> returns -319.43
<b>PV</b>	<b>Description</b>	Returns the present value of an annuity, considering a series of constant payments made over a regular payment period.

<b>Syntax</b>	<p><b>PV</b>(<i>interest</i>, <i>nper</i>, <i>pmt</i>, [<i>fv</i>], [<i>type</i>])</p> <p><i>interest</i> is the fixed periodic interest rate.</p> <p><i>nper</i> is the number of payment periods in the investment.</p> <p><i>pmt</i> is the fixed payment made each period.</p> <p><i>fv</i> is the future value, or the amount the annuity will be worth. When you omit this argument, a future value of 0 is assumed.</p> <p><i>type</i> indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.</p>
<b>Remarks</b>	<p>The units used for <i>interest</i> must match those used for <i>nper</i>. For example, if the annuity has an 8% annual interest rate over a period of 5 years, specify 8%/12 for <i>interest</i> and 5*12 for <i>nper</i>.</p> <p>Cash paid out, such as a payment, is shown as a negative number. Cash received, such as a dividend check, is shown as a positive number.</p>
<b>See Also</b>	<b>IPMT</b> , <b>NPER</b> , <b>PMT</b> , <b>PPMT</b> , and <b>RATE</b> functions
<b>Examples</b>	<p>PV(8%/12, 48, 439.43) returns -17999.89</p> <p>PV(8%/12, 48, -439.43) returns 17999.89</p>
<b>RAND</b>	<p><b>Description</b> Returns a number selected randomly from a uniform distribution greater than or equal to 0 and less than 1.</p> <p><b>Syntax</b> <b>RAND</b>()</p> <p><b>Remarks</b> Although <b>RAND</b> does not use arguments, you must supply the empty parentheses to correctly reference the function.</p> <p><b>Example</b> RAND() *10 returns a random number greater than or equal to 0 and less than 10.</p>
<b>RATE</b>	<p><b>Description</b> Returns the interest rate per period of an annuity, given a series of constant cash payments made over a regular payment period.</p> <p><b>Syntax</b> <b>RATE</b>(<i>nper</i>, <i>pmt</i>, <i>pv</i>, [<i>fv</i>], [<i>type</i>], [<i>guess</i>])</p> <p><i>nper</i> is the number of periods in the annuity.</p> <p><i>pmt</i> is the fixed payment made each period. Generally, <i>pmt</i> includes only principle and interest, not taxes or other fees.</p> <p><i>pv</i> is the present value of the annuity.</p> <p><i>fv</i> is the future value, or the amount the annuity will be worth. When you omit this argument, a future value of 0 is assumed.</p> <p><i>type</i> indicates when payments are due. Use 0 if payments are due at the end of the period or 1 if payments are due at the beginning of the period. When you omit this argument, 0 is assumed.</p> <p><i>guess</i> is your estimate of the interest rate. If no argument is supplied, a value of .1 (10%) is assumed.</p> <p><b>Remarks</b> <b>RATE</b> is calculated iteratively, cycling through the calculation until the result is accurate to .00001 percent.</p> <p><b>See Also</b> <b>IPMT</b>, <b>NPER</b>, <b>PMT</b>, <b>PPMT</b>, and <b>PV</b> functions</p> <p><b>Example</b> RATE(48, -439.43, 18000) returns .0067 (rounded to 4 decimals), which is the monthly interest rate. The annual interest rate (.0067 multiplied by 12) is 8%.</p>

<b>ROUND</b>	<p><b>Description</b> Rounds the given number to the supplied number of decimal places,</p> <p><b>Syntax</b> <b>ROUND</b>(<i>number</i>, <i>precision</i>) <i>number</i> is any value. <i>precision</i> is the number of decimal places to which <i>number</i> is rounded. When a negative precision is used, the digits to the right of the decimal point are dropped and the absolute number of significant digits specified by <i>precision</i> are replaced with zeros. If precision is 0, number is rounded to the nearest integer.</p> <p><b>See Also</b> <b>CEILING</b>, <b>FLOOR</b>, <b>INT</b>, <b>MOD</b>, and <b>TRUNC</b> functions</p> <p><b>Examples</b> <b>ROUND</b>(123.456, 2) returns 123.46 <b>ROUND</b>(9899.435, -2) returns 9900</p>
<b>SIGN</b>	<p><b>Description</b> Determines the sign of the specified number.</p> <p><b>Syntax</b> <b>SIGN</b>(<i>number</i>) <i>number</i> is any number.</p> <p><b>Remarks</b> <b>SIGN</b> returns 1 if the specified number is positive, -1 if it is negative, and 0 if it is 0.</p> <p><b>See Also</b> <b>ABS</b> function</p> <p><b>Examples</b> <b>SIGN</b>(-123) returns -1 <b>SIGN</b>(123) returns 1</p>
<b>SQRT</b>	<p><b>Description</b> Returns the square root of the specified number.</p> <p><b>Syntax</b> <b>SQRT</b>(<i>number</i>) <i>number</i> is any positive number.</p> <p><b>Examples</b> <b>SQRT</b>(9) returns 3 <b>SQRT</b>(2.5) returns 1.58</p>
<b>STDEV</b>	<p><b>Description</b> Returns the standard deviation of a population based on a sample of supplied values. The standard deviation of a population represents an average of deviations from the population mean within a list of values.</p> <p><b>Syntax</b> <b>STDEV</b>(<i>number_list</i>) <i>number_list</i> is a list of as many as 30 numbers, separated by commas.</p> <p><b>See Also</b> <b>STDEVP</b>, <b>VAR</b>, and <b>VARP</b> functions</p> <p><b>Example</b> <b>STDEV</b>(4.0, 3.0, 3.0, 3.5, 2.5, 4.0, 3.5) returns .56</p>
<b>STDEVP</b>	<p><b>Description</b> Returns the standard deviation of a population based on an entire population of values. The standard deviation of a population represents an average of deviations from the population mean within a list of values.</p> <p><b>Syntax</b> <b>STDEVP</b>(<i>number_list</i>) <i>number_list</i> is a list of as many as 30 numbers, separated by commas.</p> <p><b>See Also</b> <b>STDEV</b>, <b>VAR</b>, and <b>VARP</b> functions</p> <p><b>Example</b> <b>STDEVP</b>(4.0, 3.0, 3.0, 3.5, 2.5, 4.0, 3.5) returns .52</p>
<b>SYD</b>	<p><b>Description</b> Returns the depreciation of an asset for a specified period using the sum-of-years method. This depreciation method uses an accelerated rate, where the greatest depreciation occurs early in the useful life of the asset.</p>



	<b>Syntax</b>	<b>SYD</b> ( <i>cost</i> , <i>salvage</i> , <i>life</i> , <i>per</i> ) <i>cost</i> is the initial cost of the asset. <i>salvage</i> is the salvage value of the asset. <i>life</i> is the number of periods in the useful life of the asset. <i>period</i> is the period for which to calculate the depreciation. The time units used to determine <i>period</i> and <i>life</i> must match.
	<b>See Also</b>	<b>VDB</b> function
	<b>Example</b>	SYD(10000, 1000, 7, 3) returns 1607.14
<b>TRUNC</b>	<b>Description</b>	Truncates the given number to an integer.
	<b>Syntax</b>	<b>TRUNC</b> ( <i>number</i> , [ <i>precision</i> ]) <i>number</i> is any value. <i>precision</i> is the number of decimal places allowed in the truncated number. Omitting this argument assumes a precision of 0.
	<b>Remarks</b>	<b>TRUNC</b> removes the fractional part of a number to the specified precision without rounding the number.
	<b>See Also</b>	<b>CEILING</b> , <b>FLOOR</b> , <b>INT</b> , <b>MOD</b> , and <b>ROUND</b> functions
	<b>Examples</b>	TRUNC(123.456, 2) returns 123.45 TRUNC(9899.435, -2) returns 9800
<b>VAR</b>	<b>Description</b>	Returns the variance of a population based on a sample of values.
	<b>Syntax</b>	<b>VAR</b> ( <i>number_list</i> ) <i>number_list</i> is a list of as many as 30 numbers, separated by commas.
	<b>See Also</b>	<b>STDEV</b> , <b>STDEVP</b> , and <b>VARP</b> functions
	<b>Example</b>	VAR(4.0, 3.0, 3.0, 3.5, 2.5, 4.0, 3.5) returns .31
<b>VARP</b>	<b>Description</b>	Returns the variance of a population based on an entire population of values.
	<b>Syntax</b>	<b>VARP</b> ( <i>number_list</i> ) <i>number_list</i> is a list of as many as 30 numbers, separated by commas. The list can contain numbers or a reference to a range that contains numbers.
	<b>See Also</b>	<b>STDEV</b> , <b>STDEVP</b> , and <b>VAR</b> functions
	<b>Example</b>	VARP(4.0, 3.0, 3.0, 3.5, 2.5, 4.0, 3.5) returns .27
<b>VDB</b>	<b>Description</b>	Returns the depreciation of an asset for a specified period using a variable method of depreciation.

<b>Syntax</b>	<b>VDB</b> ( <i>cost</i> , <i>salvage</i> , <i>life</i> , <i>start_period</i> , <i>end_period</i> , [ <i>factor</i> ], [ <i>method</i> ]) <i>cost</i> is the initial cost of the asset. <i>salvage</i> is the salvage value of the asset. <i>life</i> is the number of periods in the useful life of the asset. <i>start_period</i> is the beginning period for which to calculate the depreciation. The time units used to determine <i>start_period</i> and <i>life</i> must match. <i>end_period</i> is the ending period for which to calculate the depreciation. The time units used to determine <i>end_period</i> and <i>life</i> must match. <i>factor</i> is the rate at which the balance declines. Omitting this argument assumes a default of 2, which is the double-declining balance factor. <i>method</i> is a logical value that determines if you want to switch to straight-line depreciation when depreciation is greater than the declining balance calculation. Use True to maintain declining balance calculation; use False or omit the argument to switch to straight-line depreciation calculation.
<b>See Also</b>	<b>SYD</b> functions
<b>Example</b>	VDB (10000, 1000, 7, 3, 4) returns 1041.23