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## Perl Script Writing

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# Math Functions

Shows Perl math functions providing examples of how to use the functions and what they do.

If an expression is not passed to many of these functions, except where noted, the `$_` value is used by default.

## abs

The statement:

```
abs -100
```

evaluates to the value, 100.

## atan2

This function returns the inverse tangent in radians. The returned value is  $-\pi$  to  $+\pi$ .

```
atan2 a,b
```

## cos

The cosine in radians is returned.

```
cos VALUE
```

## exp

Returns a value of the exponent (e) to the power of the passed value.

```
exp VALUE
```

## int

Convert the value to an integer and truncate it if necessary.

```
int VALUE
```

## log

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Compute the natural log of the value. This is the inverse of the exp function.

`log VALUE`

**rand**

Return a random real number between 0 and the expression passed. If no value is passed, 1 is assumed and a value between 0 and 1 is returned.

`rand VALUE`

**sin**

The sine in radians is returned.

`sin VALUE`

**sqrt**

Returns the square root of the value.

`sqrt VALUE`

**srand**

Set the random number seed to the value passed. If no value is passed, a value is calculated based on process ID and current time.

`srand VALUE`

**time**

Returns the number of seconds since January 1, 1970.