R as a Calculator

Command	Meaning	Example
Arithmetic:		
`x + y`	addition	`4 + 3`
`x - y`	subtraction	`4 - 3`
`x * y`	multiplication	`4 * 3`
`x / y`	division	`7 / 3`
`x ^ y`	exponentiation	`8 ^ (1/3)`
`x %/% y`	integer division	`7 %/% 3`
`x %% y`	modulo (remainder)	`7 %% 3`
Calculator functions:		
`exp()`	exponential	`exp(1)`
`log(x, base = exp(1))`	logarithm	`log(9, base = 3)`
("=" indicates default)		`e = exp(1); log(e^2)`
`cos(), sin(), tan()`	trigonometry	`sin(pi/2)`
`sqrt()`	square root	`sqrt(9)`
Other easy functions:		
`abs(x)`	absolute value	`abs(-3)`
`floor(x)`	greatest int $\leq$ x	`floor(-1.5)`
`ceiling(x)`	smallest int $\geq$ x	`ceiling(-1.5)`
`round(x, digits = 0)`	round to #decimal places	`round(4/3, 2)`
`signif(x, digits = 6)`	round to #significant	`signif(4/3, 2)`
Statistics distributions:		
`pnorm(q, mean = 0, sd = 1)`	$P(X < q)$ for $X \sim N(\text{mean, sd})$	`pnorm(-1, 0, 1)`
`qnorm(p, mean = 0, sd = 1)`	x with $P(X < x) = p$	`qnorm(.16, 0, 1)`
`pt(q, df)`	$P(T < q)$ for $T \sim t_{df}$	`pt(-2, 100)`
`qt(p, df)`	t where $P(T < t) = p$	`qt(.025, 100)`
Miscellaneous:		
`?name`	help("name")	`?pt`
`??topic`	help.search("topic")	`??deviation`
`setwd(folder)`	set working directory	`setwd("C:/Users/jg/Documents/692")`
`<-` (or `=`)	assign variable	`x <- 3` (or `x = 3`)
`variable.name`	display variable	`x`
`ls()`	list variables	
`rm(list = ls())`	clear all variables	
`list.files()`	list all files	
`warnings()`	display last warnings	
`#`	comment rest of line	`N <- 3 # number of points`
`demo()`	run demo code	`demo(graphics), demo(plotmath)`
`quit()`	quit R	
`source()`	read code from file	`source("John.R")`
`install.packages(name)`	install more R code	`install.packages("sos")`
`library(name)`	load more R code	`library("sos")`
`???(string)`	findFn("string"): search help	`???deviation`