

Using the R Console As a Scratch Pad

Open the **R** Console, just as we did in class, perform the following arithmetic operations and function evaluations, and save the file as *scratch1*.

Function/Operator	Brief Description
+, *, -, /, ^	Addition, Multiplication, Subtraction, Division, Exponentiation
%%	Remainder
%/%	Integer Division
sqrt(x)	Square Root \sqrt{x}
log(a), log(a,b)	Logarithmic Functions: $\ln(a)$, $\log_b(a)$
exp(x)	Exponential Operator
sin(x)	sine function
cos(x)	cosine function
tan(x)	tangent function
pi	π

- $10^2 + \frac{3 \times 60}{8} - 3$
- $\frac{5^3 \times (6 - 2)}{61 - 3 + 4}$
- $2^{2+1} - 4 + 64^{-2.25 - \frac{1}{4}}$
- $\left(\frac{0.44 \times (1 - 0.44)}{34} \right)^{\frac{1}{2}}$
- The integer part of $\sqrt{5423978071}$
- $\sin(-\pi/6)$
- $\cos(\pi/2)$
- $\tan(-\pi/2)$
- $1 - 2 + \frac{1}{2}2^2 - \frac{1}{6}2^3 + \frac{1}{24}2^4 - \frac{1}{120}2^5$
- $\frac{24}{2 + \frac{5}{3 + \frac{4}{4 - \frac{1}{1 - \frac{1}{2}}}}}$