

Mathematical Functions for MATLAB

exp(x)	Exponential
log(x)	Natural Logarithm
log10(x)	Common (base 10) logarithm
sqrt(x)	Square Root
acos(x)	Inverse cosine
acot(x)	Inverse cotangent
acsc(x)	Inverse cosecant
asec(x)	Inverse secant
asin(x)	Inverse sine
atan(x)	Inverse tangent
atan2(y,x)	Four-quadrant inverse tangent
cos(x)	Cosine
cot(x)	Cotangent
csc(x)	Cosecant
sec(x)	Secant
sin(x)	Sine
tan(x)	Tangent

Complex Functions	
abs(x)	Absolute value
angle(x)	Angle of a complex number
conj(x)	Complex conjugate
imag(x)	Imaginary part of a complex number
real(x)	Real part of a complex number

Statistical Functions	
erf(x)	Computes the error function
mean	Calculates the average
median	Calculates the median
std	Calculates the standard deviation

Element-by-element Matrix Operations	
.*	Element-by-element multiplication
./	Element-by-element division
.^	Element-by-element exponentiation
pi	Π or 3.14159