92.272 Introduction to Programming with MATLAB Some Useful Built-In Functions

Function	MATLAB Syntax
\sqrt{x}	$\operatorname{sqrt}(x)$
$\sqrt[n]{x}$	$\operatorname{nthroot}(\mathbf{x},\mathbf{n})$
x	abs(x)
n!	factorial(n)
e^x	$\exp(x)$
ln(x)	$\log(x)$
$\log_{10}(x)$	$\log 10(x)$
$\sin(x)$	$\sin(x)$ if x is in radians
	sind(x) if x is in degrees
$\cos(x)$	$\cos(x)$ if x is in radians
	cosd(x) if x is in degrees
tan(x)	tan(x) if x is in radians
	tand(x) if x is in degrees
$\sin^{-1}(x)$	asin(x) gives the result in radians
	asind(x) gives the result in degrees
$\cos^{-1}(x)$	acos(x) gives the result in radians
	acosd(x) gives the result in degrees
$\tan^{-1}(x)$	atan(x) gives the result in radians
	$\operatorname{atand}(x)$ gives the result in degrees

MATLAB Command	Description
round(x)	Round to the nearest integer
fix(x)	Round toward 0
ceil(x)	Round toward ∞
floor(x)	Round toward $-\infty$