

L19: class exercises – Try to implement/solve the following problems in MATLAB.

Root finding

Use **roots()** or **fzero** to find a zero of each of the following functions in the given interval.

$x^3 - 2x - 5$	$[0, 3]$
$\sin(x)$	$[1, 4]$
$x^3 - 0.001$	$[-1, 1]$
$\log(x + 2/3)$	$[0, 1]$
$\text{sign}(x - 2)\sqrt{ x - 2 }$	$[1, 4]$
$\arctan(x) - \pi/3$	$[0, 5]$
$1/(x - \pi)$	$[0, 5]$