Submit a published pdf of your script and any other supporting code needed to solve the following problem to Canvas by Monday, September 7 at 11:59 p.m.

Divide a Matlab script into sections using the command %%. Make one section per question and use a comment to label each section of the script (a)-(b). In each section, write a code that creates a plot of the following functions. Label the axes and title the plots appropriately. Publish the script and submit the resulting PDF to Canvas.

(a) $f_n(\theta) = \sin(n\theta\pi)$ over the interval $\theta \in [0, 1]$ for $n = 1, 2, 4$. Plot all on the same graph with thick lines of different colors. Use a legend.

(b) $g(x) = (x + 2)(x - 1)(x - 4)$ over the interval $x \in [-4, 5]$. Plot a red line along the x-axis and plot blue crosses at the roots of $g(x)$.