

All problems equally weighted. Use Excel for all graphs.

Problem 1: Graph using Excel:

$$y = 2 \cdot x^2 + 6 \cdot x - 3$$

Problem 2: Solve graphically the system of equations shown to the right. If a solution does not exist, show graphically why a solution does not exist.

$$g(x) = -x^2 + 2 \cdot x + 10$$

$$f(x) = 3 \cdot x^2 + 6 \cdot x - 8$$

Problem 3: Graph the equality to the right

$$y = -|x^2 + 1| + 10$$