

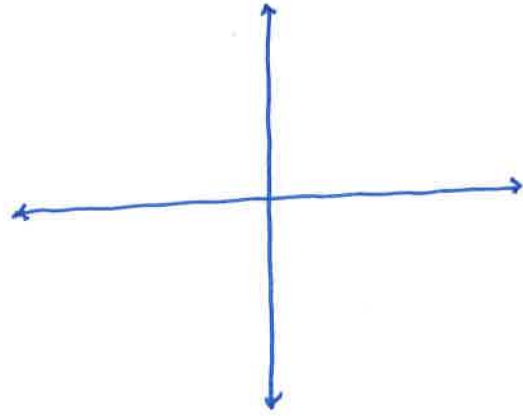
Assignment 2.1.4 Day 2

Name _____

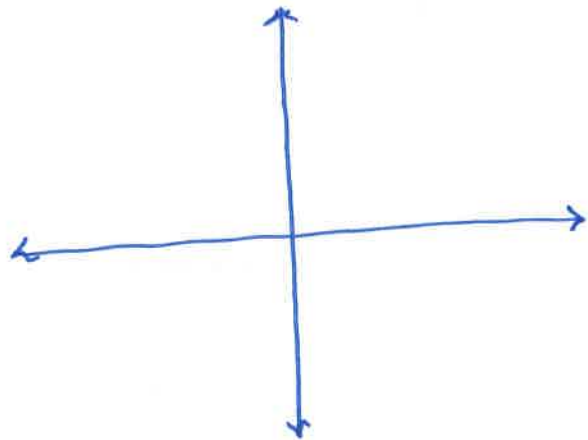
Per. _____

① Complete the square to convert to graphing form. Then make a sketch. Include labels for the vertex and y-intercept.

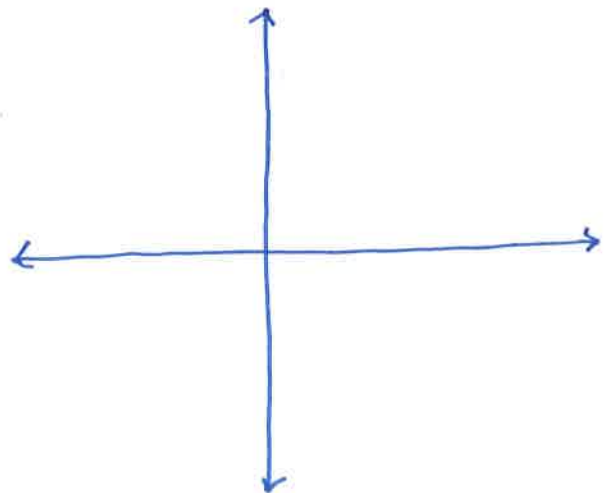
a) $y = x^2 - 4x + 9$



b) $y = x^2 + 7x - 2$



c) $y = 2x^2 - 16x + 30$ (Hint: The "a" coefficient must be 1)

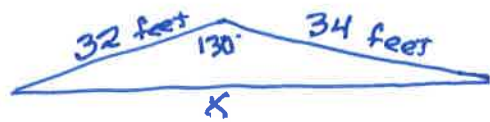


②

Find the distance between $(-7, 20)$ and $(3, -5)$ to the nearest 2 decimal places

③

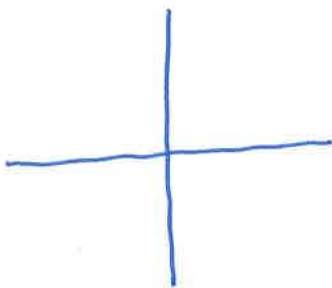
Find x



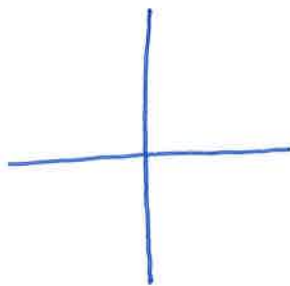
④

Sketch the functions without a calculator. (Use Transformation skills)

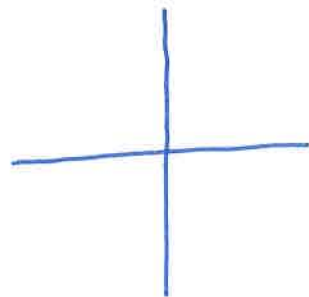
$$y = (x-3)^2 + 6$$



$$y = -(x+1)^2 - 3$$



$$y = 2x^2 + 4$$



⑤

Find the x -intercepts; algebraically

$$y = (x-3)^2 - 1$$