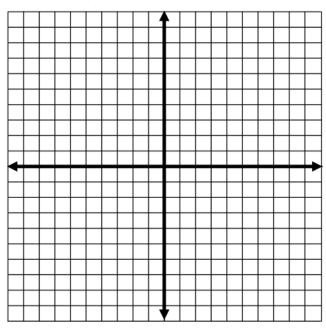
Algebra 2 skills check

Graph the following quadratic function without a calculator

$$f(x) = (x-4)^2 - 4$$



- a. State the domain & range of the function and describe its end behavior
- b. What are the coordinates of the vertex of the function
- c. What is/are the coordinate(s) of the x intercept(s) of the function
- d. What is/are the coordinate(s) of the y intercept(s) of the function
- e. Describe the transformations present for this function compared to the parent function

Algebra 2 skills check

Solve the following equations by factoring

1)
$$x^2 - 11x + 19 = -5$$

2)
$$7r^2 - 14r = -7$$

3)
$$3x^2 - 8x + 4 = 0$$

Solve the following equations (use any method)

4)
$$5 = \sqrt{r-3}$$

$$5) \ \frac{3}{4}x + \frac{3}{2}x = \frac{9}{4}$$

6)
$$x^3 + 5x^2 - 6x - 30 = 0$$