BECA / Dr. Huson / Regents Prep: Graphs 18 November 2024

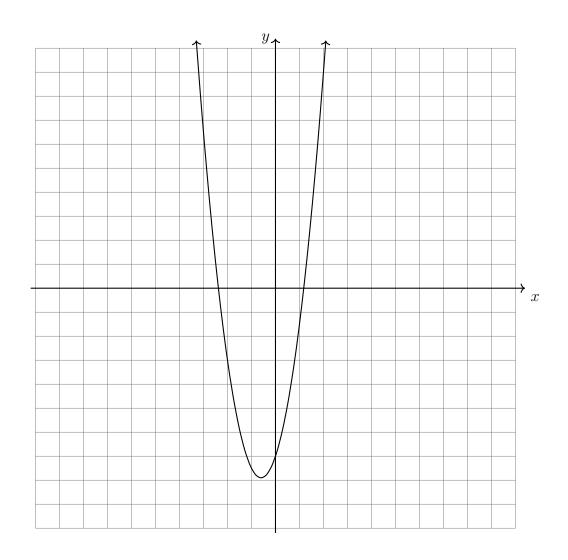
First and last name: Section:

3.4 Do Now: Graphing quadratic systems

- 1. One equation of a system is graphed.
 - (a) Graph the second equation, labeling the intersections as ordered pairs.
 - (b) Find the value of the leading coefficient a of the quadratic equation.

$$y = ax^2 + 3x - 7$$

$$3x - y = -3$$



- 2. Identify the expressions that are equal to $\frac{4^2}{4^4}$
 - (a) $\frac{1}{4^2}$

(d) 4^6

(b) 4^{-2}

(e) 4^2

(c) $\frac{1}{16}$

- (f) 0.0625
- 3. Identify the expressions that are equal to 4^{-2}
 - (a) $\frac{1}{4^2}$

(d) 4.25

(b) 0.0625

(e) 2

(c) $\frac{1}{16}$

- (f) $\sqrt{4}$
- 4. Identify the expressions that are equal to $27^{\frac{1}{3}}$
 - (a) 3

(d) 27.33

(b) 9

(e) 1.5

(c) $\sqrt[3]{27}$

- (f) 81
- 5. The graph of the function $f(x) = x^3 3x^2 4x + 12$ is shown. Write the function in factored form.

