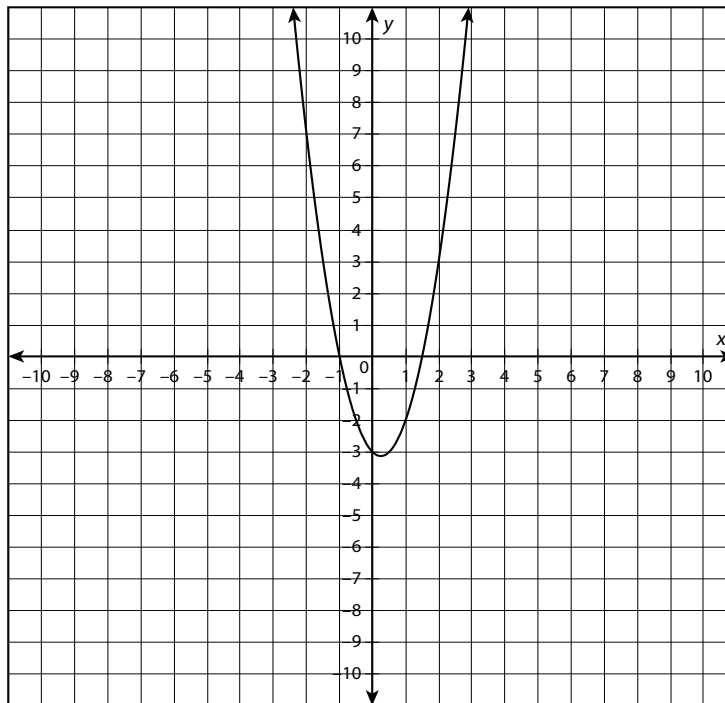


## Graphing Polynomial Functions

## Progress Assessment

Circle the letter of the best answer.

1. A function  $y = ax^2 + bx + c$  is represented by the following graph:



Which of the following functions could represent the graph?

- a.  $f(x) = x^2 + 6x + 9$                       c.  $f(x) = x^2 - 7x + 10$   
b.  $f(x) = 2x^2 - x - 3$                       d.  $f(x) = x^2 + 5x$
2. What is the focus of the parabola with equation  $y = x^2 - 4x$ ?
- a. (2, -3)                                      c. (2, -4)  
b. (2, -4.25)                                  d. (2, -3.75)

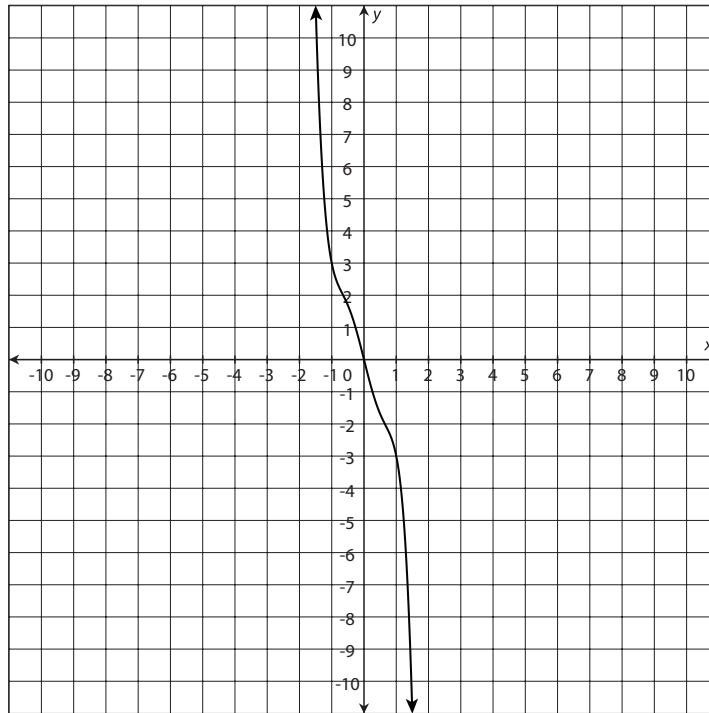
**continued**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Assessment**

3. What must be true about the degree and leading coefficient of the graphed polynomial?



- a. The polynomial is an odd-degree function and has a positive coefficient.
- b. The polynomial is an odd-degree function and has a negative coefficient.
- c. The polynomial is an even-degree function and has a positive coefficient.
- d. The polynomial is an even-degree function and has a negative coefficient.

*continued*





