

Name: _____

Date: _____

UNIT 5 • POLYNOMIAL OPERATIONS AND QUADRATIC FUNCTIONS A–APR.3, A–SSE.1*

Lesson 5.7: Creating and Graphing Equations Using Standard Form

Practice 5.7: Creating and Graphing Equations Using Standard Form

A

Sketch the graph for each of the following quadratic functions.

1. $q(x) = -x^2 - 6x - 8$

2. $f(x) = -3x^2 + 24x - 48$

3. $m(b) = b^2 - 6b + 10$

Find the y -intercept and vertex of the following functions. State whether the vertex is a minimum or maximum point on the graph and explain your reasoning.

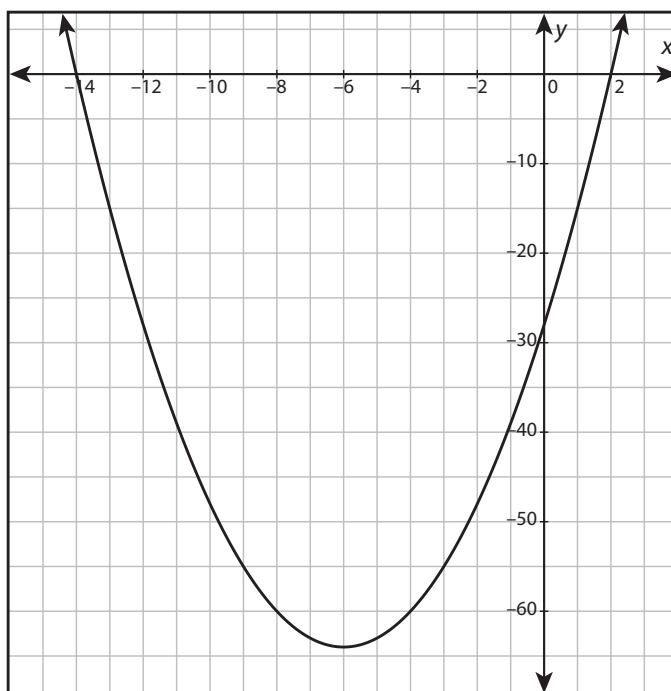
4. $k(h) = h^2 - 4h + 3$

5. $l(d) = d^2 - 6d$

6. $f(x) = -7x^2 - 14x - 6$

Does the following graph represent the given function? Explain your reasoning.

7. $y(x) = x^2 + 12x - 28$



continued

