

Name _____

12-1A Lesson Master

Questions on SPUR Objectives

See pages 773–775 for objectives.

USES Objective G

1. The perimeter of a rectangle is 20.06 cm.
 - a. Find a formula for its area A in terms of the length L of one side. _____
 - b. What is the vertex of the parabola in Part a? _____
 - c. What is the meaning of the vertex in this scenario? _____

REPRESENTATIONS Objective H

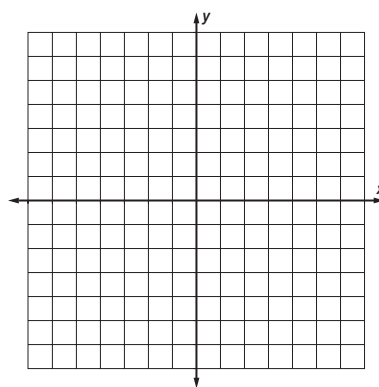
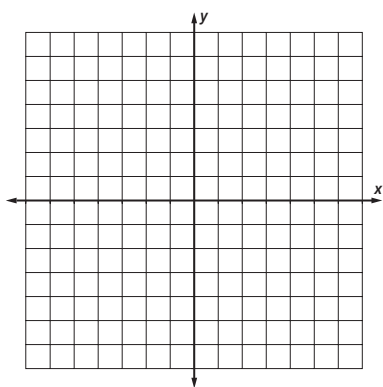
In 2 and 3, an equation of a parabola is given. Find the coordinates of its vertex and graph the equation without a calculator.

2. $y + 3 = (x + 7)^2$

3. $y - 2 = -(x + 4)^2$

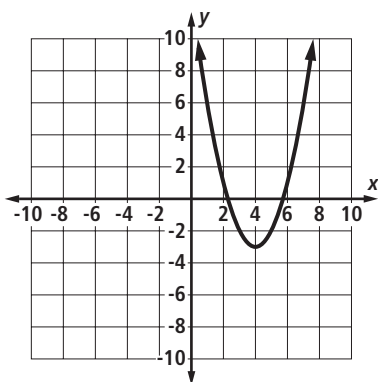
vertex _____

vertex _____



In 4 and 5, a parabola is given. Write an equation of the parabola in the form $y - k = a(x - h)^2$. Assume $|a| = 1$.

4.



5.

