

Name _____

9-3A Lesson Master

Questions on SPUR Objectives

See pages 576–579 for objectives.

REPRESENTATIONS Objective H

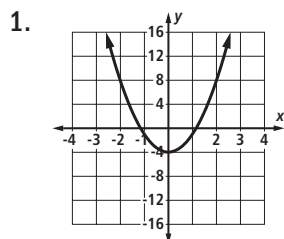
In 1-4, match the graph with its equation.

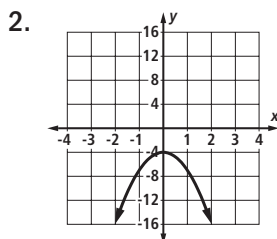
A $y = -3x^2 + 4$

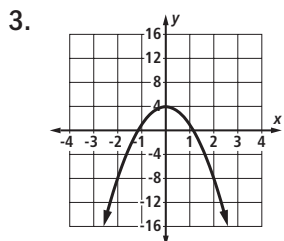
B $y = 3x^2 + 4$

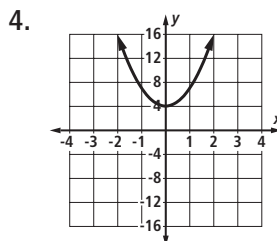
C $y = 3x^2 - 4$

D $y = -3x^2 - 4$









5. Let $f(x) = -x^2 + 3x + 10$.

a. Fill in the table.

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
f(x)											

b. Using the table, estimate the vertex. _____

c. Identify the x -intercepts. Identify the y -intercept. _____

d. Find an equation of the axis of symmetry. _____

6. Graph $y = 2x^2 + 17x - 33$ on your calculator.

a. Give the dimensions of the window that allow you to see the vertex and x -intercepts. _____

b. Estimate the coordinates of the vertex to the nearest tenth. _____

c. Estimate the x -intercepts to the nearest tenth. _____

7. True or False. Consider $h(x) = -4x^2 - 5x + 1$.

a. The graph of $h(x)$ opens down. _____

b. The vertex is approximately $(-0.6, 2.6)$. _____

c. The graph has no x -intercepts. _____