

Name _____

9-1A Lesson Master

Questions on SPUR Objectives

See pages 576–579 for objectives.

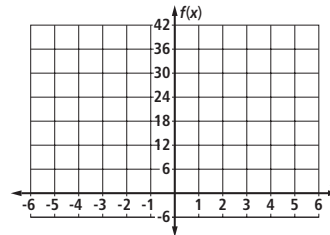
REPRESENTATIONS Objective G

1. Let $f(x) = 3x^2$.

a. Complete the table below.

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

b. Graph the equation.



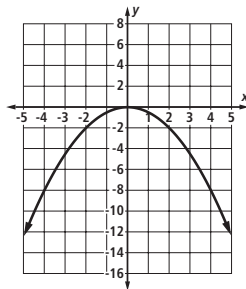
2. *Multiple Choice.* Which equation has the graph below? _____

A $y = -2x^2$

B $y = 2x^2$

C $y = \frac{1}{2}x^2$

D $y = -\frac{1}{2}x^2$



3. a. Complete the table of values below for a parabola.

x	-4	-3	-2	-1	0	1	2	3	4
y		45		5	0	5	20		80

b. What are the coordinates of the vertex? _____

c. Is the vertex a minimum or maximum? _____

4. *True or False.* If $h(x) = -8x^2$, then $(-3, 72)$ is a point on its graph. _____

5. If the point $(5, 11)$ lies on a parabola with $x = 0$ as the axis of symmetry, give the coordinates of another point on the parabola. _____