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name

2-5B Lesson Master	Questions on SPUR Objectives See Student Edition pages 143–147 for objectives.
VOCABULARY	
1. Fill in the Blank A graph <i>symmetric</i> to the	e <i>y</i> -axis coincides with its
image over the <i>y</i> -ax	xis.
2. Fill in the Blank For all graphs of parabola	as $y = kx^2$, the point (0, 0)
is the	
3 . For what values of k is (0, 0) the <i>maximum</i> p	point of $y = kx^2$?
(SKILLS) Objective C	
In 4 and 5, consider the equation $y = 6x^2$. Find t	the rate of change between
4. $x = 2$ and $x = 5$.	5. $x = -2$ and $x = 2$.
In 6 and 7, consider the equation $y = -2x^2$. Find	the rate of change between
6. $x = 4$ and $x = 6$.	7. $x = 6$ and $x = 8$.
DDODEDTIES Objective E	
In 8 and 9, consider the graph of the variation ed	quation $v = kx^2$.
8. If the graph has points in the second quadrant,	, what do you know about k?
9. If $k < 0$, give the range of the function.	
10. Multiple Choice Which of these equations	s has $(0, 0)$ as a maximum value?
A $y = 3x^2$ B $y = -3x^2$ C $y = 3 - 3x^2$	x^2 D $y = 3x$ E $y = x^2 - 3$
	1
REPRESENTATIONS Objective	
each question.	on the same gru below
11. a. $y = 5x^2$ b. $y = -5x^2$	12. a. $y = \frac{1}{2}x^2$ b. $y = -\frac{1}{2}x^2$
5	

Advanced Algebra 157

2-5B

REPRESENTATIONS Objective J

13. **Matching** Match each graph with its equation. Axes have the same scale.



Multiple Choice In 14 and 15, select the equation whose graph looks most like the one shown. Assume the scales on both axes are the same.



REVIEW Lesson 1-4, Objective H

- 16. At the right is the graph of a function. Find the
 - **a.** range. _____
 - b. domain.
 - **c.** values of *x* for which f(x) = 0.

