

Name _____

12-7A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 862–865 for objectives.

SKILLS Objective A

In 1-4, rewrite the equation in standard form $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$.

1. $y - 5 = 2(x - 3)^2$

2. $(x + 1)^2 + (y + 4)^2 = 9$

3. $y = \frac{15}{x}$

4. $\frac{x^2}{12} + \frac{y^2}{20} = 1$

SKILLS Objective B

In 5 and 6, write an equation for a hyperbola meeting the given conditions in the standard form of a quadratic equation.

5. foci $(-4, -4)$ and $(4, 4)$ and focal constant 8 _____

6. vertices $(4, 0)$ and $(-4, 0)$ and asymptotes $y = \pm x$ _____

PROPERTIES Objective E

In 7 and 8, find a. the foci, b. the focal constant, and c. the asymptotes of the hyperbola.

7. $y = \frac{1}{x}$

a. _____

b. _____

c. _____

8. $xy = 14$

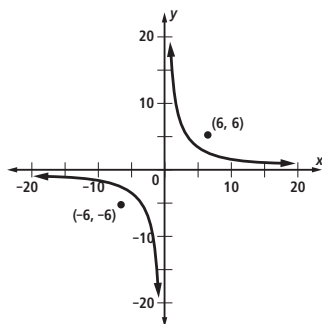
a. _____

b. _____

c. _____

REPRESENTATIONS Objective I

9. Write an equation for the hyperbola graphed below.



10. Graph $xy = 12$ below.

