

1. Write an equation of a circle with center $(-2, 6)$ and radius 3.

- a) $(x+2)^2 + (y-6)^2 = 3$ b) $(x-2)^2 + (y+6)^2 = 9$
 c) $(x+2)^2 + (y-6)^2 = 9$ d) $(x+2)^2 + (y-6)^2 = 36$

Find the center and the radius of each circle.

2. $(x+7)^2 + (y-6)^2 = 16$

- a) $(-7, 6); 8$ b) $(7, -6); 4$
 c) $(7, -6); 8$ d) $(-7, 6); 4$

3. $x^2 + y^2 + 6x - 4y - 7 = 0$

- a) $(-3, 2); 10$ b) $(-3, 2); 2\sqrt{5}$
 c) $(3, -2); 2\sqrt{5}$ d) $(-3, 2); \sqrt{13}$

Classify the equation as a circle, an ellipse, a parabola, or a hyperbola.

4. $x^2 - y^2 + 6x + 4y + 4 = 0$

- a) ellipse b) parabola c) circle d) hyperbola

5. $36x^2 + 4y^2 = 100$

- a) ellipse b) circle c) hyperbola d) parabola

ANSWERS

1. _____

2. _____

3. _____

4. _____

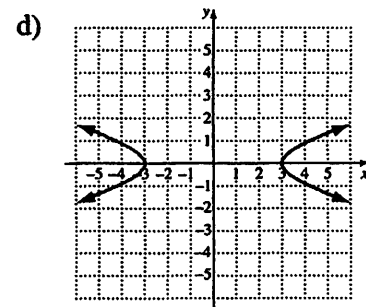
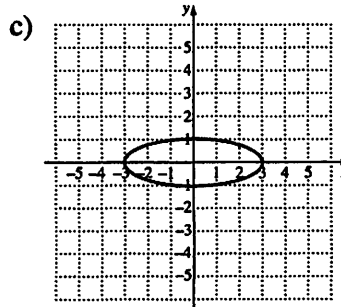
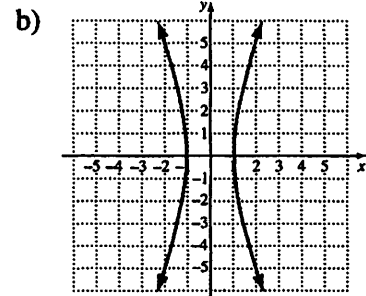
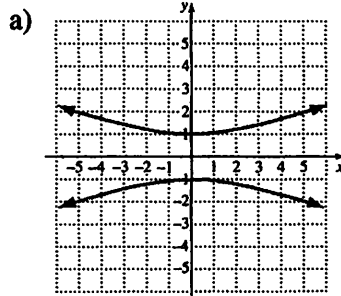
5. _____

TEST FORM H

ANSWERS

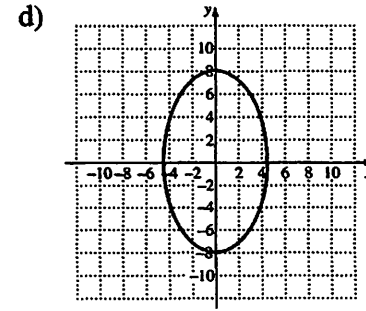
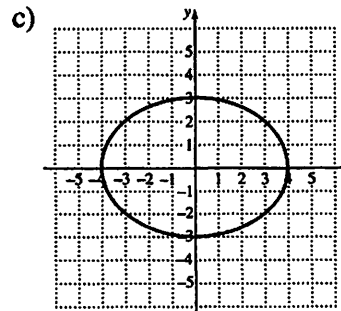
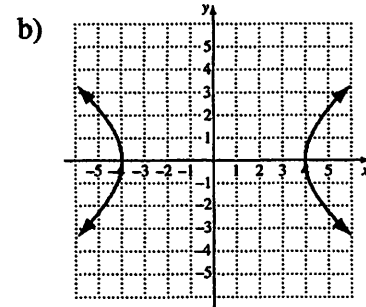
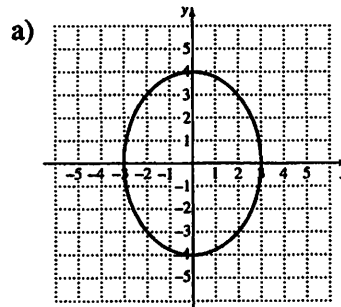
6. _____

6. Which is the graph of $\frac{x^2}{9} - y^2 = 1$?



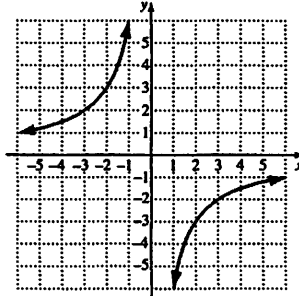
7. _____

7. Which is the graph of $9x^2 + 16y^2 = 144$?



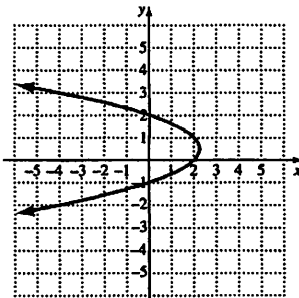
TEST FORM H

8. Which equation corresponds to the graph at right?



- a) $x^2 - y^2 = 6$
- b) $xy = -6$
- c) $xy = 6$
- d) $x = -6y$

9. Which equation corresponds to the graph at right?



- a) $x = -y^2 - y + 2$
- b) $y = -x^2 + x + 2$
- c) $x = y^2 + y + 2$
- d) $x = -y^2 + y + 2$

10. Find one solution to the system:
 $\frac{x^2}{16} + \frac{y^2}{4} = 1,$
 $2x + 4y = 8.$

- a) (2, 0)
- b) (0, 4)
- c) (0, 5)
- d) (4, 0)

11. Find one solution to the system:
 $x^2 + y = 8,$
 $5x - y = -14.$

- a) (3, -1)
- b) (2, 4)
- c) (-2, 4)
- d) (-3, 1)

12. Find one solution to the system:
 $x^2 + y^2 = 4,$
 $\frac{x^2}{4} - \frac{y^2}{3} = 1.$

- a) (2, 0)
- b) (0, 3)
- c) (0, -2)
- d) (-3, 0)

ANSWERS

8. _____

9. _____

10. _____

11. _____

12. _____

Answers for Chapter 13 Tests: FORM H

1. c	10. d
2. d	11. c
3. b	12. a
4. d	13. d
5. a	14. b
6. d	15. c
7. c	16. d
8. b	17. c
9. d	18. a