

Answer Key

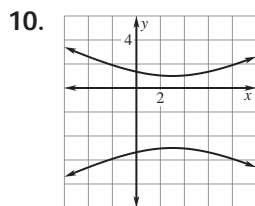
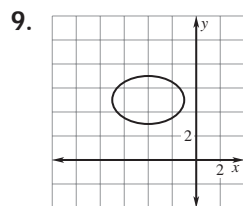
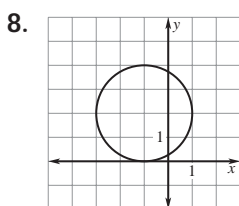
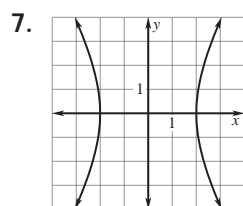
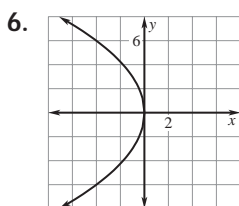
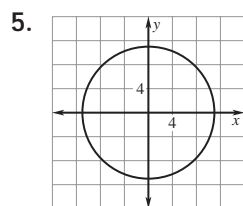
Test C

1. $\sqrt{80} \approx 8.94; (-4, -2)$

2. $\sqrt{162} \approx 12.7; (\frac{1}{2}, \frac{1}{2})$

3. $\sqrt{116} \approx 10.8; (8, 3)$

4. $\sqrt{8} \approx 2.83; (-6, -2)$



11. $x^2 = 12y$ 12. $(x + 3)^2 + (y - 2)^2 = 25$

13. $\frac{x^2}{25} + \frac{y^2}{4} = 1$ 14. $\frac{(x + 3)^2}{4} + \frac{(y - 1)^2}{1} = 1$

15. $\frac{x^2}{16} - \frac{y^2}{20} = 1$ 16. $\frac{(x - 3)^2}{9} - \frac{(y + 2)^2}{16} = 1$

17. ellipse; $\frac{x^2}{16} + \frac{y^2}{9} = 1$

18. parabola; $(x - \frac{5}{6})^2 = \frac{1}{3}(y - \frac{11}{12})$

19. hyperbola; $\frac{x^2}{9} - \frac{y^2}{16} = 1$

20. parabola; $x^2 = -\frac{15}{2}y$

21. hyperbola; $\frac{(y + 2)^2}{1} - \frac{(x + 6)^2}{9} = 1$

22. circle; $(x - 4)^2 + (y - 3)^2 = 25$

23. circle; $(x + 2)^2 + (y - 3)^2 = 16$

24. ellipse; $\frac{(x - 8)^2}{16} + \frac{(y - 5)^2}{4} = 1$

25. $(0, 3), (\frac{\sqrt{23}}{2}, -\frac{11}{4}), (-\frac{\sqrt{23}}{2}, -\frac{11}{4})$

26. $(0, 4)$ 27. $x^2 = 20y$ 28. $1\frac{1}{4}$ feet