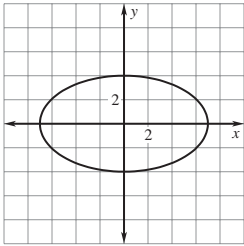


Answer Key

Practice A

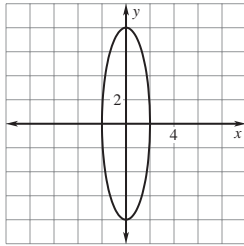
1. vertices: $(\pm 9, 0)$; co-vertices: $(0, \pm 2)$;
 foci: $(\pm \sqrt{77}, 0)$ 2. vertices: $(0, \pm 5)$;
 co-vertices: $(\pm 4, 0)$; foci: $(0, \pm 3)$
3. vertices: $(0, \pm 4)$; co-vertices: $(\pm 2\sqrt{3}, 0)$;
 foci: $(0, \pm 2)$ 4. $\frac{x^2}{1} + \frac{y^2}{4} = 1$; vertices: $(0, \pm 2)$;
 co-vertices: $(\pm 1, 0)$; foci: $(0, \pm \sqrt{3})$
5. $\frac{x^2}{169} + \frac{y^2}{1} = 1$; vertices: $(\pm 13, 0)$;
 co-vertices: $(0, \pm 1)$; foci: $(\pm 2\sqrt{42}, 0)$
6. $\frac{x^2}{4} + \frac{y^2}{25} = 1$; vertices: $(0, \pm 5)$;
 co-vertices: $(\pm 2, 0)$; foci: $(0, \pm \sqrt{21})$

7.



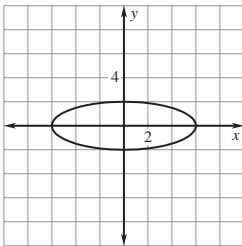
- vertices: $(\pm 7, 0)$;
 co-vertices: $(0, \pm 4)$;
 foci: $(\pm \sqrt{33}, 0)$

8.



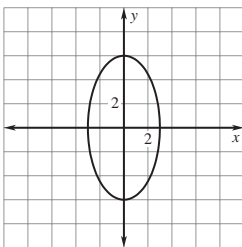
- vertices: $(0, \pm 8)$;
 co-vertices: $(\pm 2, 0)$;
 foci: $(0, \pm 2\sqrt{15})$

9.



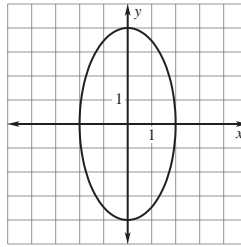
- vertices: $(\pm 6, 0)$;
 co-vertices: $(0, \pm 2)$;
 foci: $(\pm 4\sqrt{2}, 0)$

10.



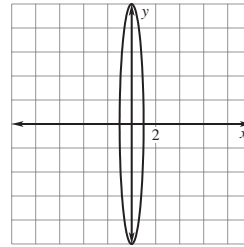
- vertices: $(0, \pm 6)$;
 co-vertices: $(\pm 3, 0)$;
 foci: $(0, \pm 3\sqrt{3})$

11.



- vertices: $(0, \pm 4)$;
 co-vertices: $(\pm 2, 0)$;
 foci: $(0, \pm 2\sqrt{3})$

12.



- vertices: $(0, \pm 10)$;
 co-vertices: $(\pm 1, 0)$;
 foci: $(0, \pm 3\sqrt{11})$

13. $\frac{x^2}{49} + \frac{y^2}{25} = 1$ 14. $\frac{x^2}{25} + \frac{y^2}{9} = 1$

15. $\frac{x^2}{1} + \frac{y^2}{4} = 1$ 16. $\frac{x^2}{16} + \frac{y^2}{100} = 1$

17. $\frac{x^2}{64} + \frac{y^2}{36} = 1$ 18. $\frac{x^2}{9} + \frac{y^2}{8} = 1$

19. $\frac{x^2}{32} + \frac{y^2}{36} = 1$ 20. $\frac{x^2}{25} + \frac{y^2}{16} = 1$

21. $\frac{x^2}{4} + \frac{y^2}{9} = 1$ 22. $(3, 0), (-3, 0)$