

Answer Key

Practice A

1. A 2. C 3. B 4. $\frac{x^2}{1} - \frac{y^2}{36} = 1$

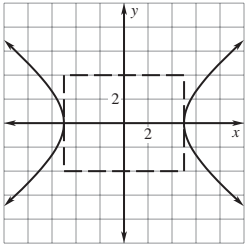
5. $\frac{y^2}{4} - \frac{x^2}{9} = 1$ 6. $\frac{x^2}{4} - \frac{y^2}{49} = 1$

7. vertices: $(\pm 12, 0)$; foci: $(\pm 6\sqrt{5}, 0)$

8. vertices: $(0, \pm 3)$; foci: $(0, \pm \sqrt{109})$

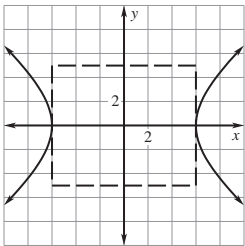
9. vertices: $(0, \pm 11)$; foci: $(0, \pm \sqrt{221})$

10.



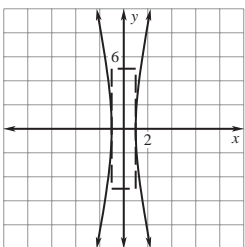
foci: $(\pm \sqrt{41}, 0)$;
asymptotes: $y = \pm \frac{4}{5}x$

12.

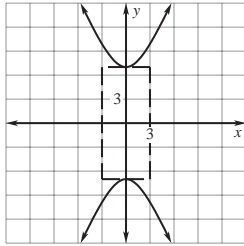


$(\pm \sqrt{61}, 0)$
asymptotes: $y = \pm \frac{5}{6}x$

14.

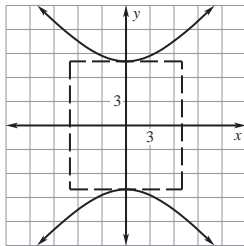


11.



foci: $(0, \pm \sqrt{58})$;
asymptotes: $y = \pm \frac{7}{3}x$

13.

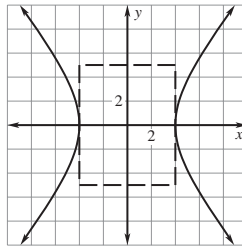


foci: $(0, \pm \sqrt{113})$;
asymptotes: $y = \pm \frac{8}{7}x$

foci: $(\pm \sqrt{26}, 0)$;
asymptotes: $y = \pm 5x$

foci:

15.



foci: $(\pm \sqrt{41}, 0)$;
asymptotes: $y = \pm \frac{5}{4}x$

16. $\frac{x^2}{4} - \frac{y^2}{5} = 1$ 17. $\frac{x^2}{16} - \frac{y^2}{9} = 1$

18. $\frac{y^2}{1} - \frac{x^2}{35} = 1$ 19. $\frac{x^2}{1} - \frac{y^2}{15} = 1$

20. $\frac{y^2}{9} - \frac{x^2}{\frac{9}{4}} = 1$