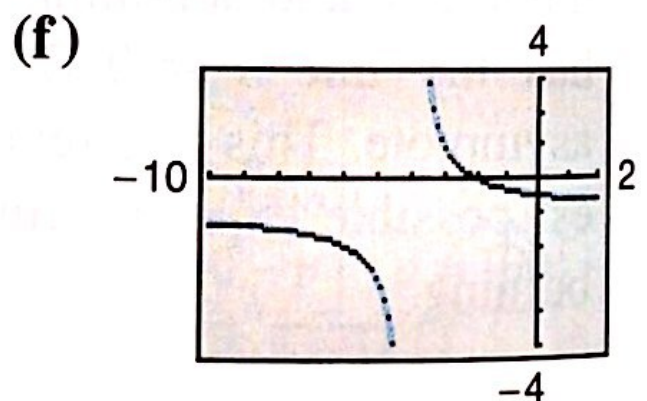
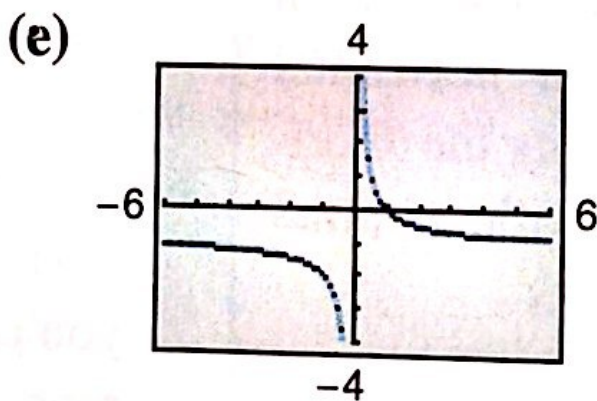
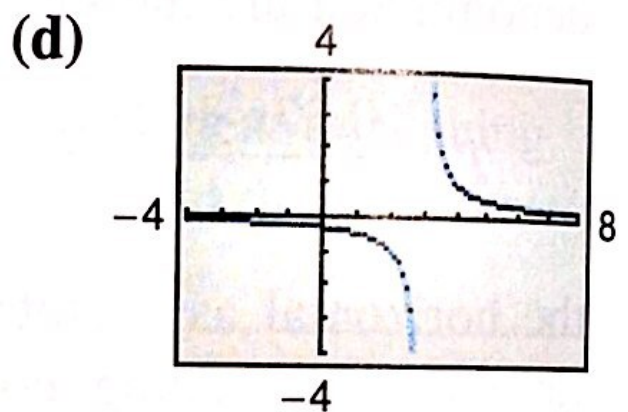
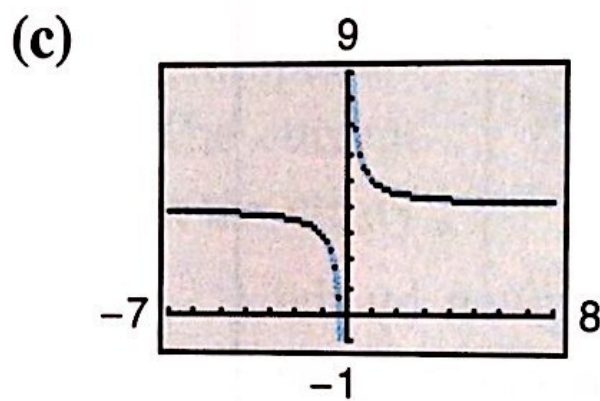
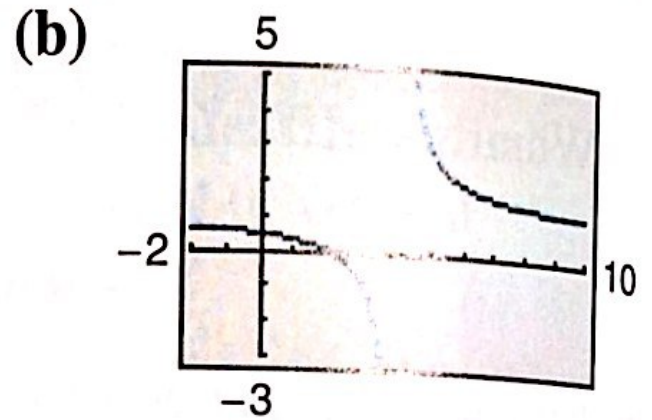
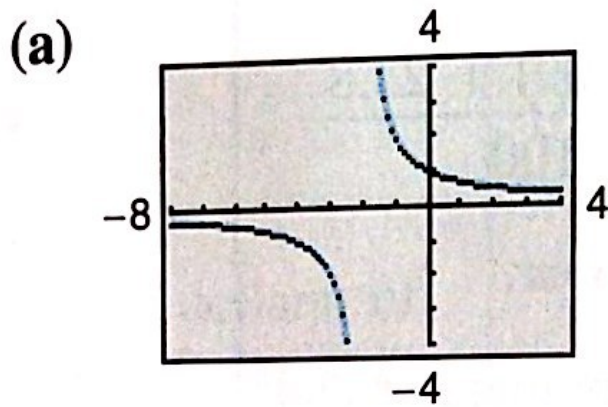


In Exercises 7–12, match the function with its graph. [The graphs are labeled (a), (b), (c), (d), (e), and (f).]



7.  $f(x) = \frac{2}{x + 2}$

8.  $f(x) = \frac{1}{x - 3}$

9.  $f(x) = \frac{4x + 1}{x}$

10.  $f(x) = \frac{1 - x}{x}$

11.  $f(x) = \frac{x - 2}{x - 4}$

12.  $f(x) = -\frac{x + 2}{x + 4}$

Find all asymptotes and holes of the rational function

$$13. f(x) = \frac{1}{x^2}$$

$$14. f(x) = \frac{3}{(x-2)^3}$$

$$15. f(x) = \frac{2+x}{2-x}$$

$$16. f(x) = \frac{1-5x}{1+2x}$$

$$17. f(x) = \frac{x^2 + 2x}{2x^2 - x}$$

$$18. f(x) = \frac{x^2 - 25}{x^2 + 5x}$$

$$2x^2 + x - 5$$