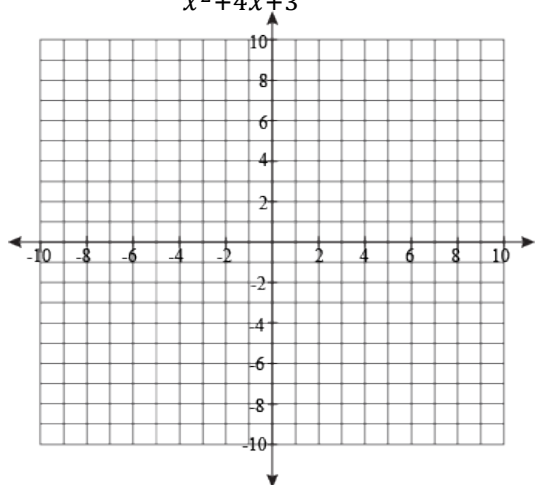


Find the vertical asymptotes, horizontal asymptotes, slant asymptotes, x-intercepts and, y-intercepts. Then sketch the graph.

1. $f(x) = \frac{x-2}{x^2+4x+3}$



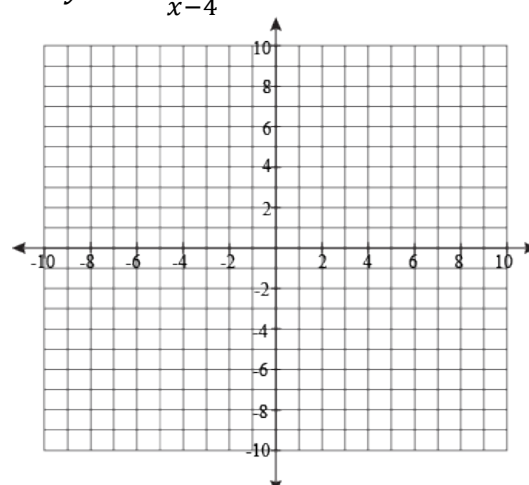
Vertical Asymptote(s): _____

Horizontal/Slant Asymptote(s): _____

x-intercept(s): _____

y-intercept(s): _____

2. $y = \frac{x^2-6x+5}{x-4}$



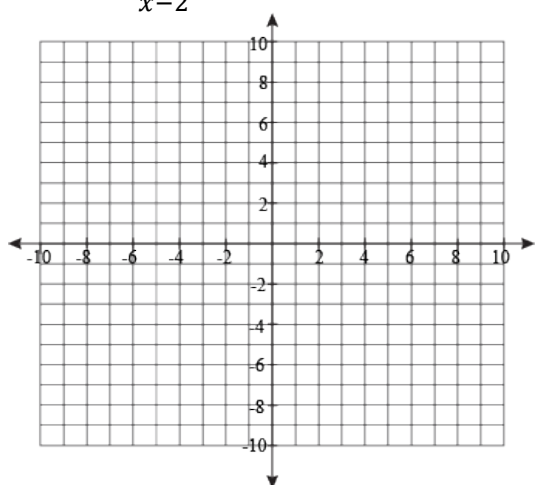
Vertical Asymptote(s): _____

Horizontal/Slant Asymptote(s): _____

x-intercept(s): _____

y-intercept(s): _____

3. $y = \frac{3x-1}{x-2}$



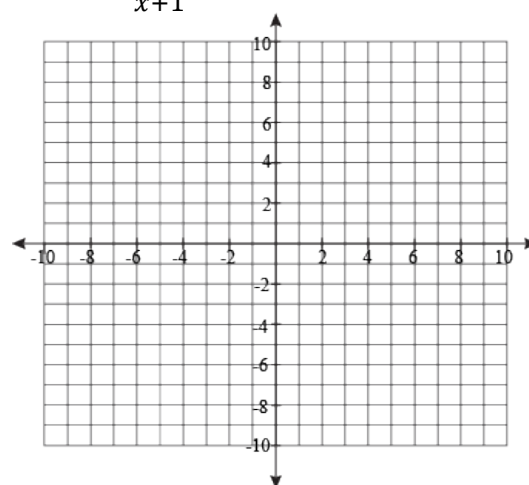
Vertical Asymptote(s): _____

Horizontal/Slant Asymptote(s): _____

x-intercept(s): _____

y-intercept(s): _____

4. $y = \frac{-2}{x+1}$



Vertical Asymptote(s): _____

Horizontal/Slant Asymptote(s): _____

x-intercept(s): _____

y-intercept(s): _____

State the domain of the function.

5. $f(x) = \sqrt{x - 5}$

Domain: _____

6. $g(x) = \sqrt[3]{x + 7}$

Domain: _____

7. $g(x) = -2\sqrt[3]{x} + 9$

Domain: _____

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

Domain: _____

Write the radical equation given the following.

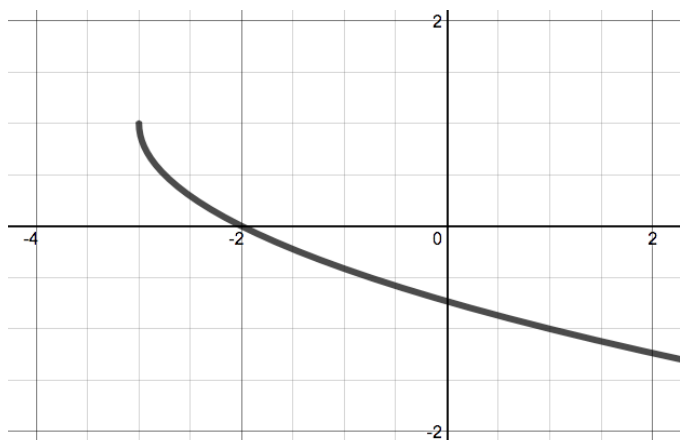
9. What is the equation of a square root function that is shifted 13 units down and 2 units to the right?

$f(x) =$ _____

10. What is the equation of a cube root function that is shifted 9 units up and 7 units to the right?

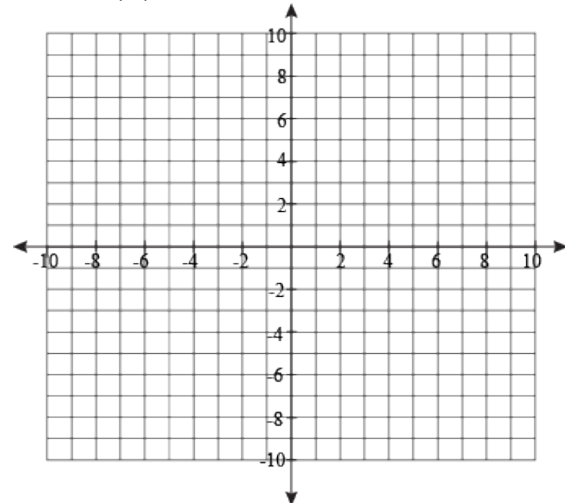
$f(x) =$ _____

11. Write the radical equation from the graph.

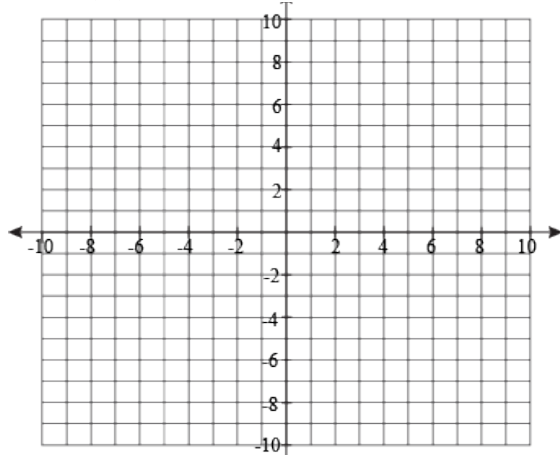


(12-14) Graph the Radical Functions.

12. $k(x) = \sqrt[3]{x} + 2$



9. $h(x) = -2\sqrt{x - 1}$



10. $k(x) = \sqrt[3]{x + 3}$

