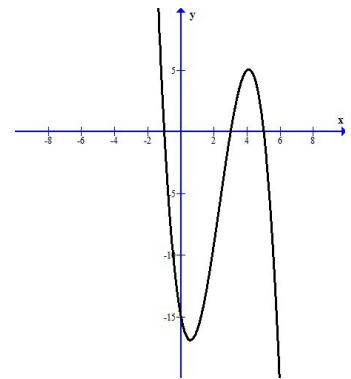


5.6 Practice Problems

1. Use the graph of the polynomial function to solve the inequalities.

a. $f(x) \geq 0$

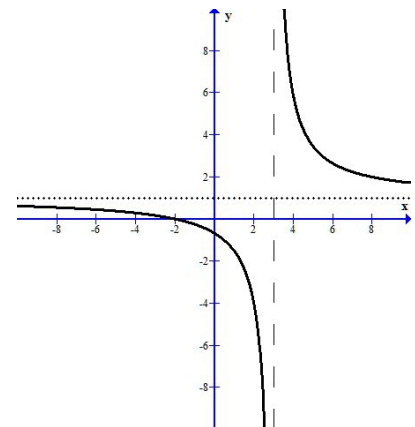
b. $f(x) < 0$



2. Use the graph of the rational function to solve the inequalities.

a. $f(x) \geq 0$

b. $f(x) < 0$



Solve the following inequalities. Write your answer in interval notation.

3. $(x+1)(x-2)(x+4) > 0$

4. $x^3 + 7x^2 - x - 7 < 0$

5. $\frac{3-x}{x+8} > 0$

6. $\frac{2x-3}{3x-7} \leq 0$

7. $2x^2+4x+1 < 0$

8. $x^2+6x+9 \leq 0$

9. $\frac{x-3}{x+8} \leq 2$

10. $9-x^2 < 0$