Section 5.5 Quadratic and Rational Inequalities

#1 – 8: Use the graph of f(x) to solve

a) f(x) = 0 $x = -4,3$

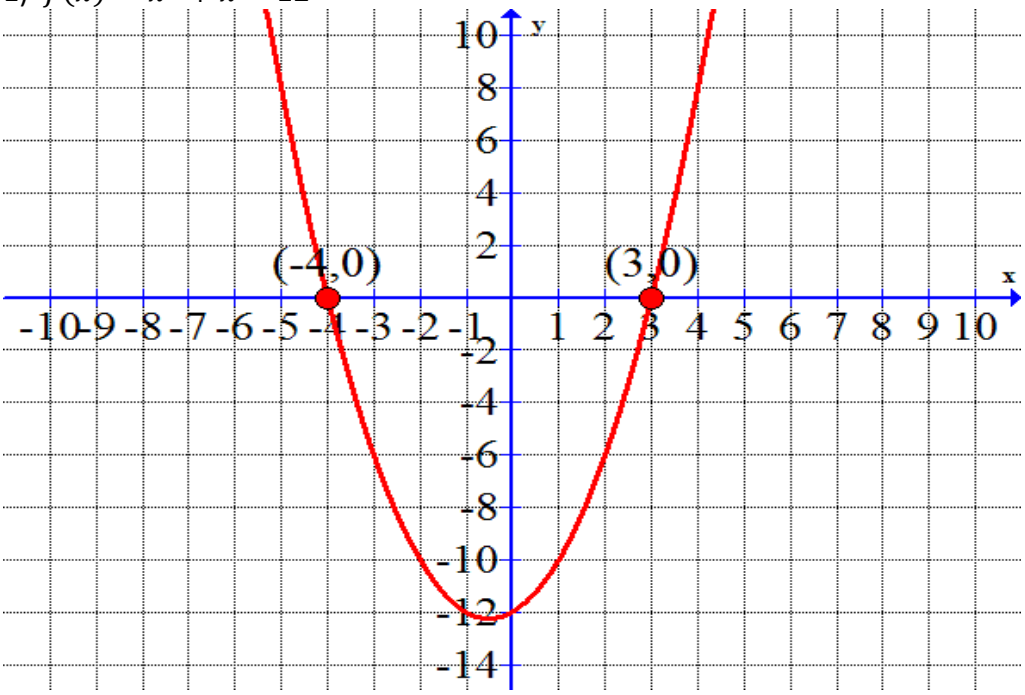
b) f(x) > 0 $(-\infty, -4) \cup (3, \infty)$

c) f(x) < 0 $(-4,3)$

d) f(x) ≥ 0 $(-\infty, -4] \cup [3, \infty)$

e) f(x) ≤ 0 $[-4,3]$

1) $f(x) = x^2 + x - 12$



#1 – 8: Use the graph of f(x) to solve

a) f(x) = 0 $x = -4,3$

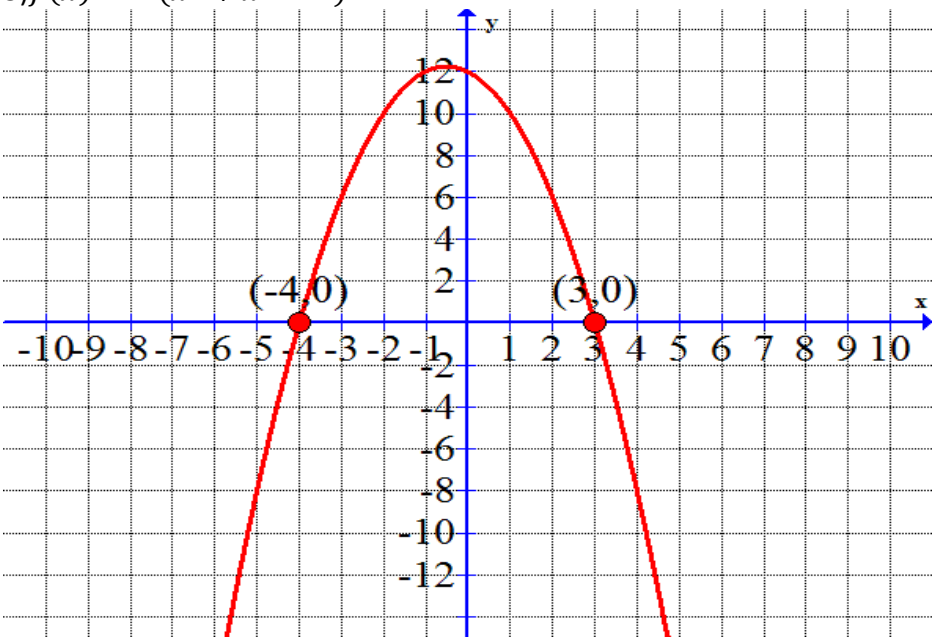
b) f(x) > 0 $(-4,3)$

c) f(x) < 0 $(-\infty,-4) \cup (3,\infty)$

d) f(x) ≥ 0 $(-\infty,-4] \cup [3,\infty)$

e) f(x) ≤ 0 $[-4,3]$

3)$f(x) = -(x^2 + x - 12)$



#1 – 8: Use the graph of f(x) to solve

a) f(x) = 0 $x = -2$

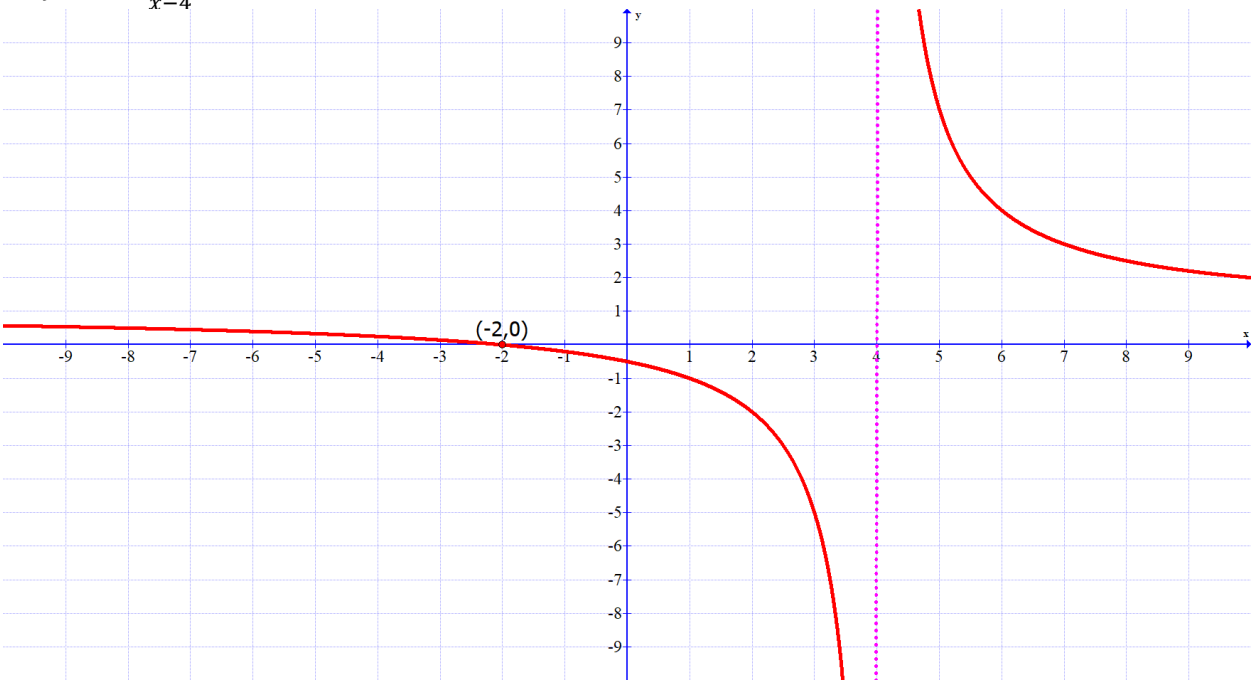
b) f(x) > 0 $(-\infty, -2) \cup (4, \infty)$

c) f(x) < 0 $(-2,4)$

d) f(x) $\geq$ 0 $(-\infty, -2] \cup (4, \infty)$

e) f(x) $\leq$ 0 $[-2,4)$

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



#1 – 8: Use the graph of f(x) to solve

a) f(x) = 0 $x = 3$

b) f(x) > 0 $(-2,3)$

c) f(x) < 0 $(-\infty,-2) \cup (3,\infty)$

d) f(x) $\geq$ 0 $(-2,3]$

e) f(x) $\leq$ 0 $(-\infty,-2) \cup [3,\infty)$

7) $f(x) = \frac{3-x}{x+2}$