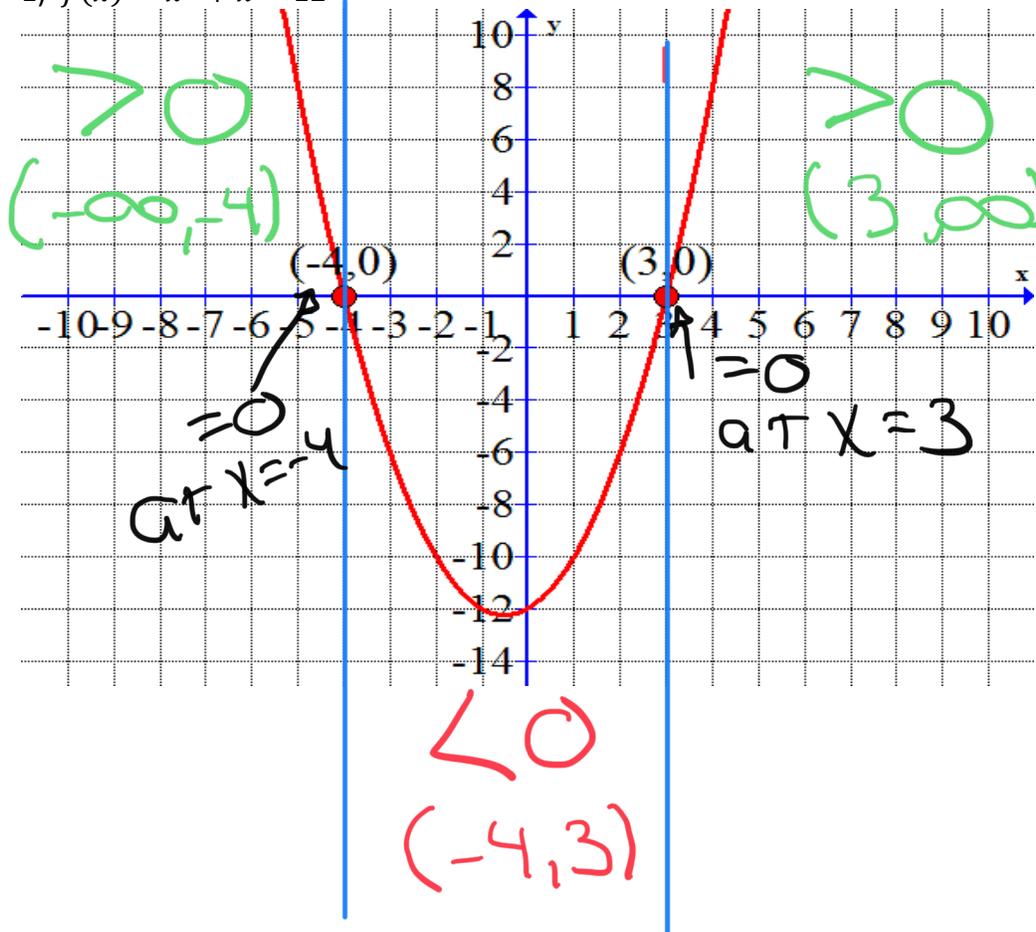


Section 5.5 Quadratic and Rational Inequalities

#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) $f(x) \geq 0$ $(-\infty, -4] \cup [3, \infty)$
- e) $f(x) \leq 0$ $[-4, 3]$

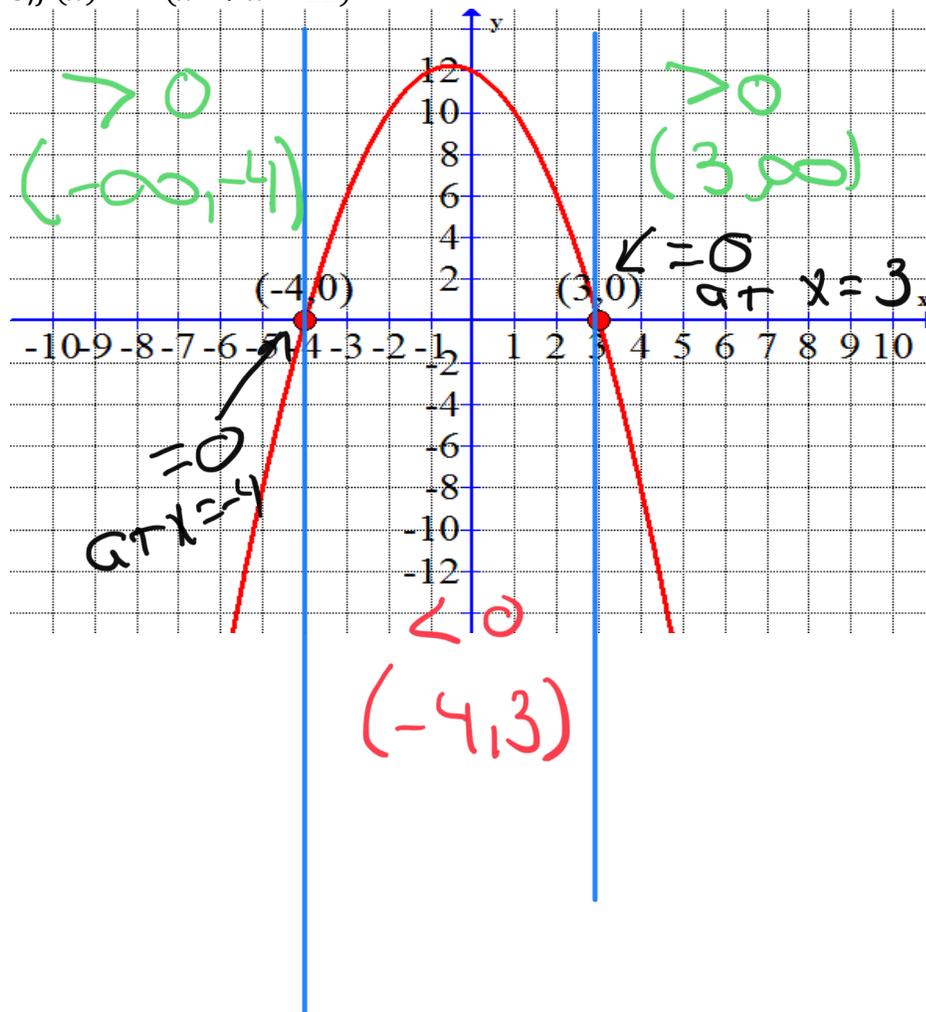
1) $f(x) = x^2 + x - 12$



#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) $f(x) \geq 0$ $(-\infty, -4] \cup [3, \infty)$
- e) $f(x) \leq 0$ $[-4, 3]$

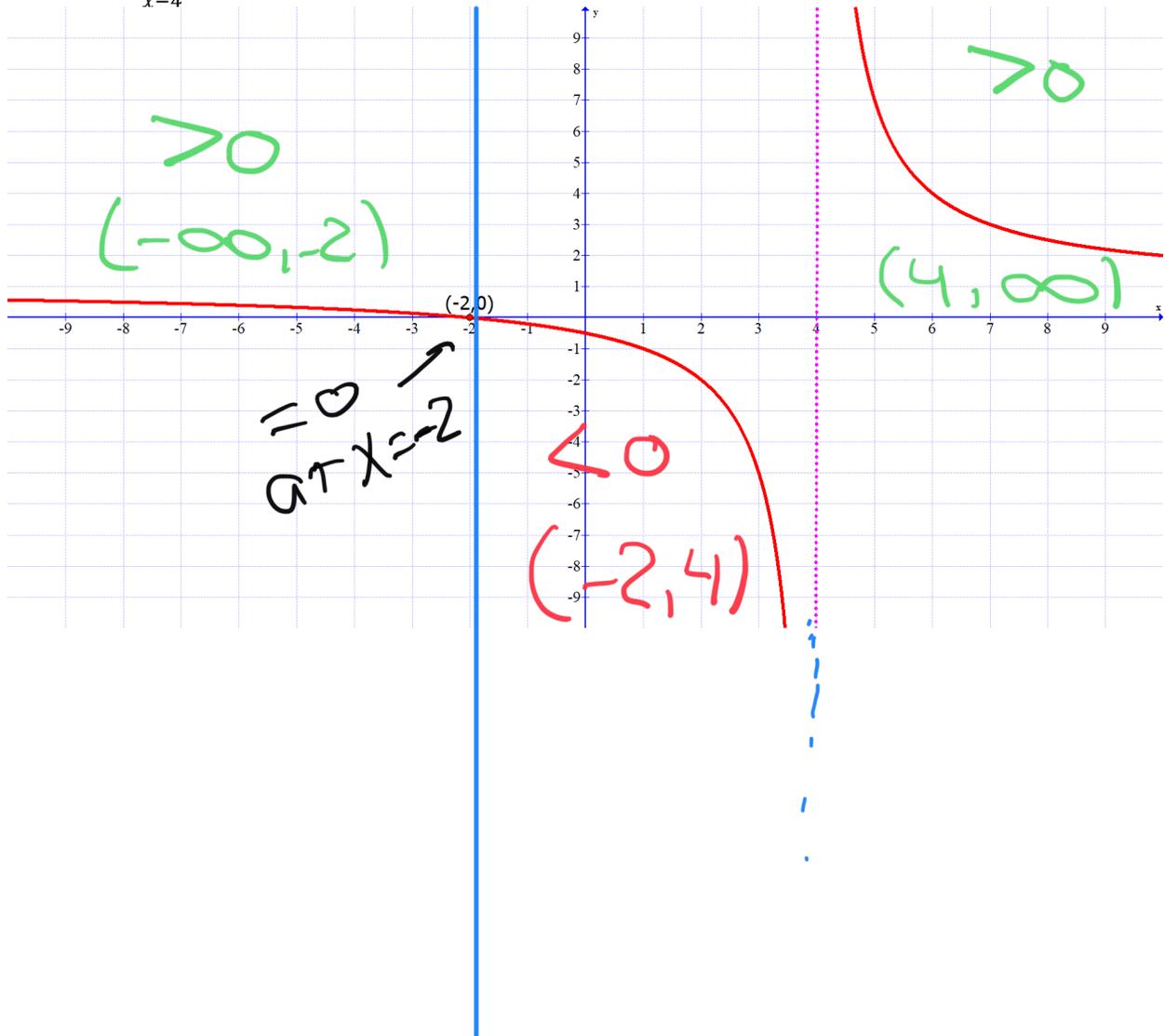
3) $f(x) = -(x^2 + x - 12)$



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

- a) $f(x) = 0 \quad x = -2$
- b) $f(x) > 0 \quad (-\infty, -2) \cup (4, \infty)$
- c) $f(x) < 0 \quad (-2, 4)$
- d) $f(x) \geq 0 \quad (-\infty, -2] \cup (4, \infty)$
- e) $f(x) \leq 0 \quad [-2, 4)$

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



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

- a) $f(x) = 0 \quad x = 3$
- b) $f(x) > 0 \quad (-2, 3)$
- c) $f(x) < 0 \quad (-\infty, -2) \cup (3, \infty)$
- d) $f(x) \geq 0 \quad (-2, 3]$
- e) $f(x) \leq 0 \quad (-\infty, -2) \cup [3, \infty)$

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

