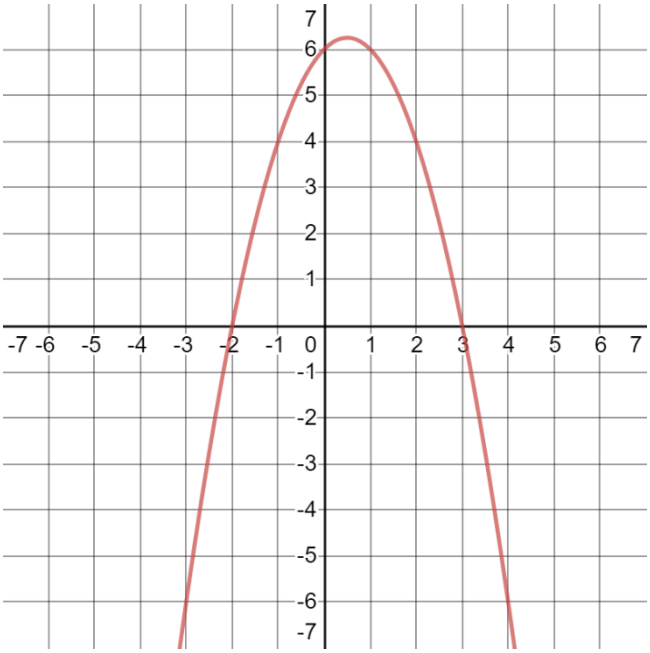
Learning Activity – Section 7.5 – Polynomial Inequalities

Names: _____ _____

_____ _____

1. The graph of $f(x)$ is given. Write the solution to each of the inequalities in interval notation.



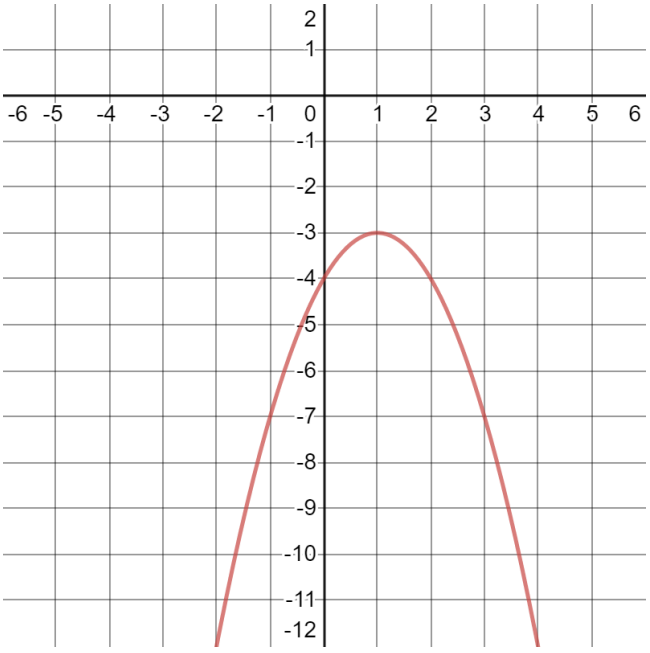
a. $f(x) < 0$

b. $f(x) \leq 0$

c. $f(x) > 0$

d. $f(x) \geq 0$

2. The graph of $g(x)$ is given. Write the solution to each of the inequalities in interval notation.



a. $g(x) < 0$

b. $g(x) \leq 0$

c. $g(x) > 0$

d. $g(x) \geq 0$

3. Solve the inequality, and write the solution in interval notation.

$x^2 \geq -9x$

4. Solve the inequalities, and write each solution in interval notation.

a. $x^2 - 10x + 25 > 0$

b. $x^2 - 10x + 25 \leq 0$