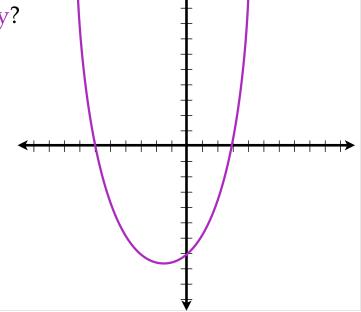
Date _____ Period _____

What is a Quadratic Inequality?

A function in quadratic form with an inequality sign...

$$ax^2 + bx + c \ge 0 \qquad ax^2 + bx + c \le 0$$

$$f(x) \ge 0 \qquad \qquad f(x) \le 0$$

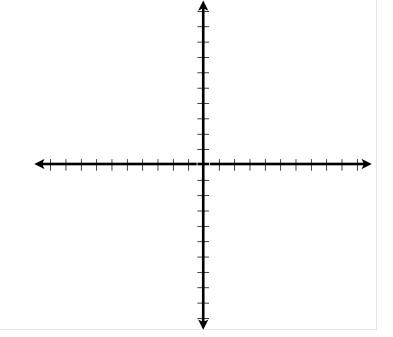


Solve the following quadratic inequality:

$$x^2 + 6x + 5 \le 0$$

Vertex Interval Notation

y-intercept *x*-intercept(s)



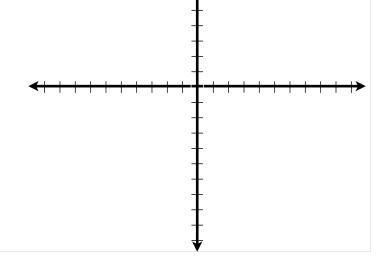
Solve the following quadratic inequality:

$$x^2 - 8x + 12 \ge 0$$

$$a = 1$$
 $b = -8$ $c = 12$

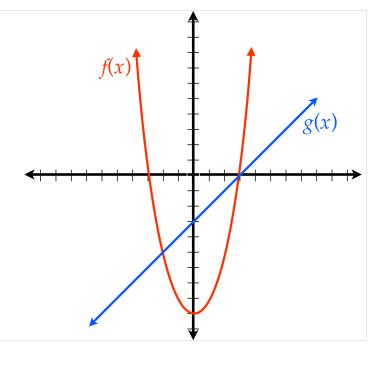
Vertex Interval Notation

y-intercept *x*-intercept(s)



Solve the following quadratic inequality:

$$x^2 - 9 \le x - 3$$



Solve the following quadratic inequality:

$$x^2 - 9 \ge x - 3$$

