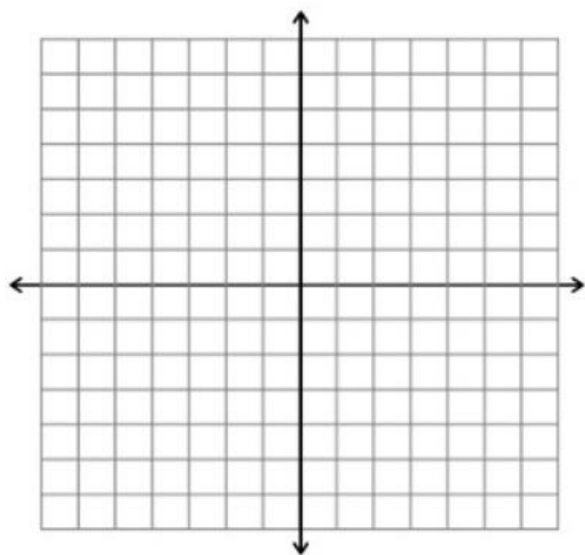


Sketch

$$-x^2 - 4x > 2$$



Vertex (Max/Min)

y-intercept

x-intercept(s)

Solution Set:

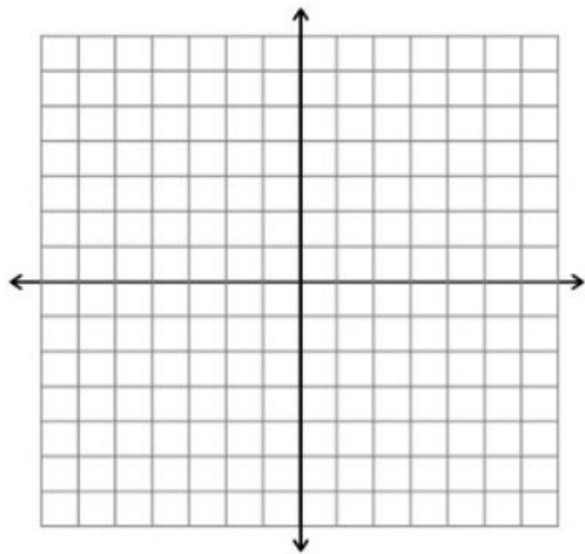
Symbols:

Number line:

Interval:

Sketch

$$x^2 - 3x - 10 \leq 0$$



Vertex (Max/Min)

y-intercept

x-intercept(s)

Solution Set:

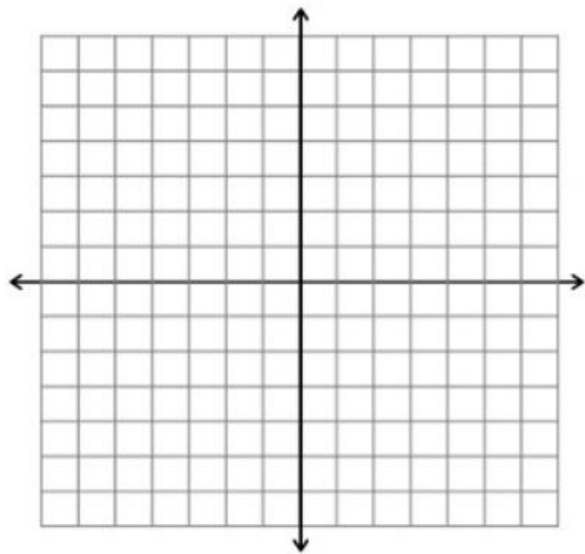
Symbols:

Number line:

Interval:

Sketch

$$3x^2 - x \geq 4$$



Vertex (Max/Min)

y-intercept

x-intercept(s)

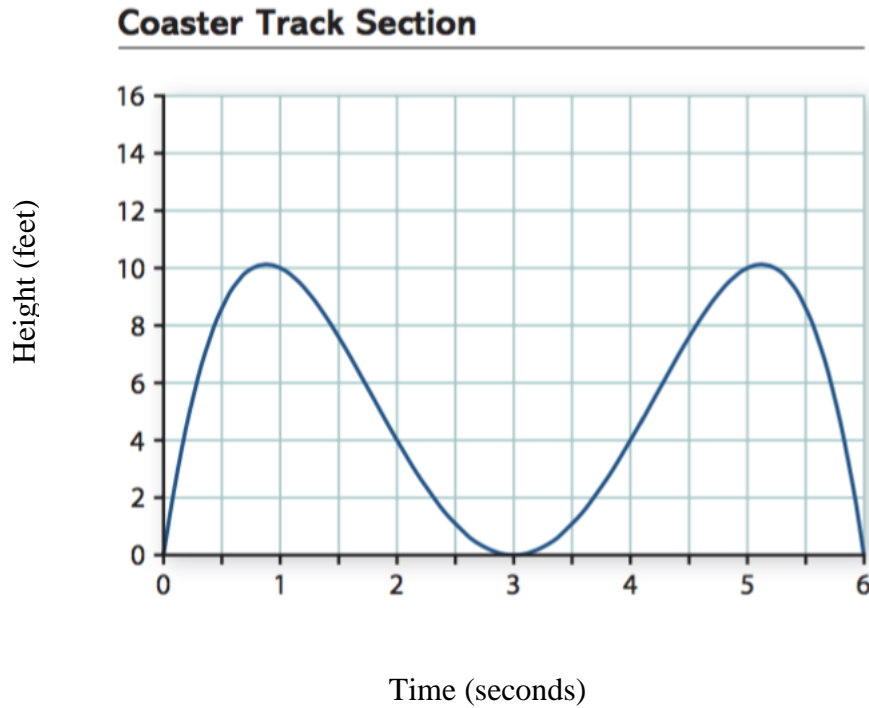
Solution Set:

Symbols:

Number line:

Interval:

The following graph shows the height of a roller coaster at different times of the ride.



- Evaluate  $h(5)$ .
- Solve  $h(t) = 6$  and describe what it tells you about the height of the roller coaster.
- Write a question that can be answered by solving the inequality  $h(t) < 6$ .
- Solve the inequality  $h(t) < 6$  and display your solution on a number line graph, using symbols and using Interval Notation.

*Solution using symbols:*

*Solution on number line graph:*

*Solution using Interval Notation:*