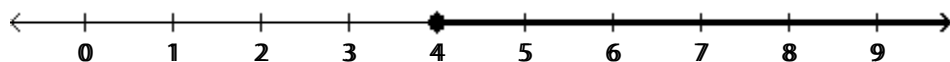


Alg 2 1.1 Homework

Question 1.

Drag and drop the correct notation into each box for every description of the interval shown on the number line.



Inequality:

$x \geq 4$

$x \leq 4$

$\{x \mid x \geq 4\}$

$\{x \mid x \leq 4\}$

Set notation:

$[4, +\infty)$

$(4, +\infty)$

Interval notation:



Alg 2 1.1 Homework

Question 2.

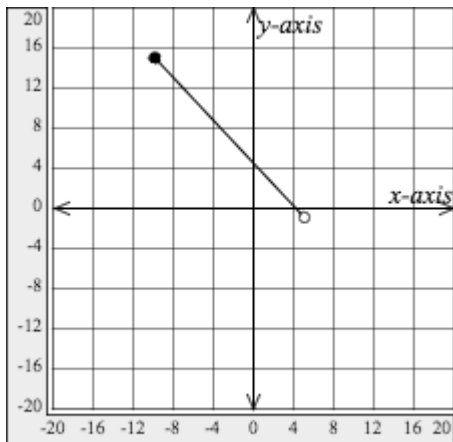
For the given function and domain, select the graph and identify the range using the same notation as the given domain.

$f(x) = -x + 4$ with domain $[-10, 5]$

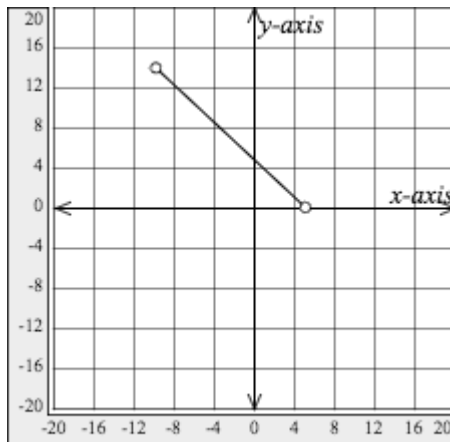
Part 1

Select the graph.

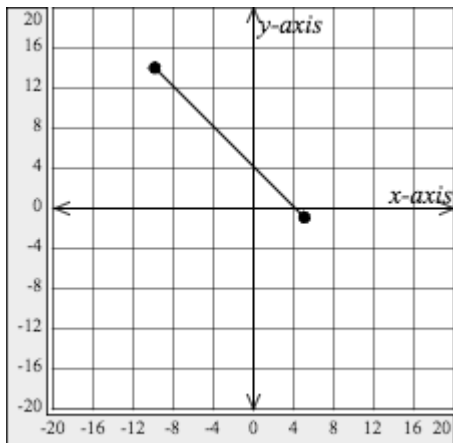
A.



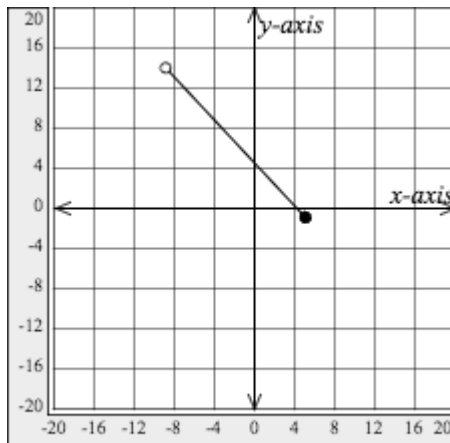
B.



C.



D.



Part 2

Identify the range.

The range is .

Alg 2 1.1 Homework

Question 3.

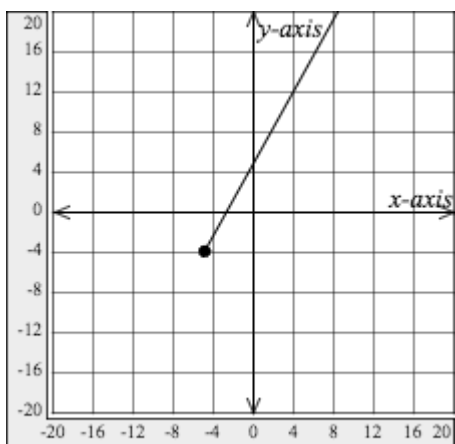
For the given function and domain, select the graph and identify the range using the same notation as the domain.

$$f(x) = \frac{9}{5}x + 5 \text{ with domain } \{x \mid x > -5\}$$

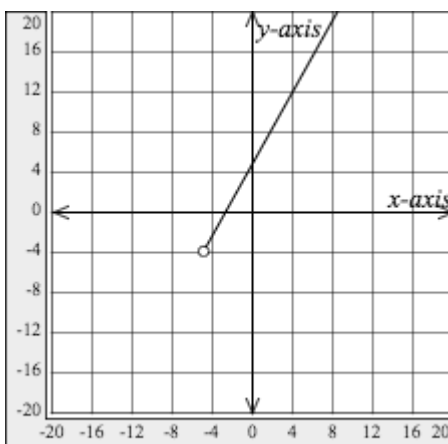
Part 1

Select the graph.

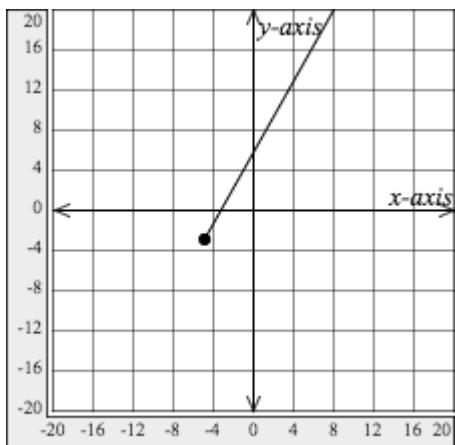
A.



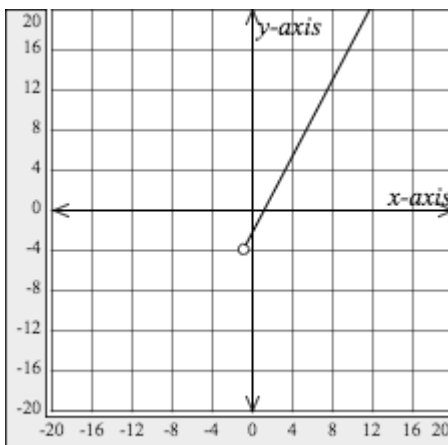
B.



C.



D.



Part 2

Identify the range.

The range is $\{y \mid$ $\}$.

Alg 2 1.1 Homework

Question 4.

Part 1

Enter a function that models the given situation. Determine a domain from the situation. Use an inequality for the domain.

An elevator in a tall building starts at a floor of the building that is 103 meters above the ground. The elevator descends 4 meters every 0.5 seconds for 7 seconds.

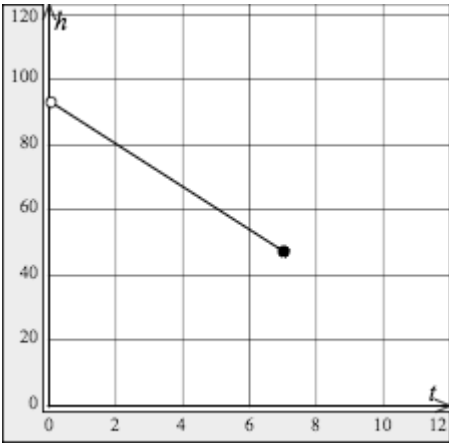
A function is $h(t) = \square - \square t$, where t is the time in seconds and h is the height in meters.

The domain is .

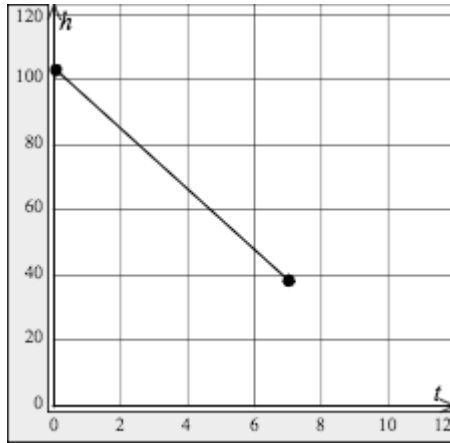
Part 2

Select a graph that matches the function and then select the range. Use an inequality for the range.

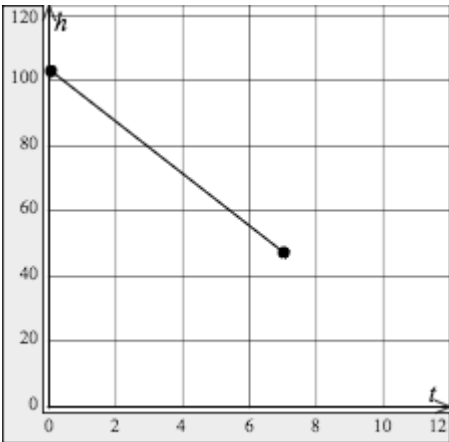
A.



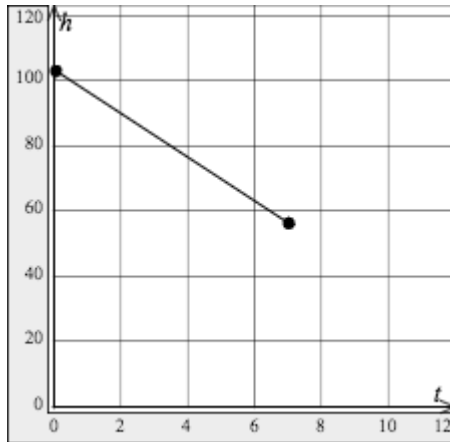
B.



C.



D.



The range is -
