

Find the Unit Rate (Slope) from the table: Remember $\frac{\text{Change in } Y}{\text{Change in } X}$

X	2	4	6	8	10
Y	3	4	5	6	7

What is the Rate of Change (Slope) from each equation?

a) $y = x + \frac{3}{2}$ _____

b) $y = \frac{1}{2}x + 2$ _____

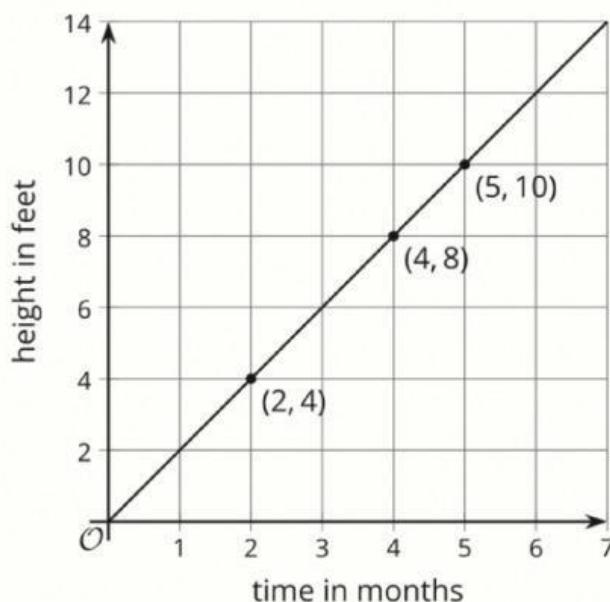
c) $y = 2 + \frac{1}{4}x$ _____

d) D. $y = \frac{3}{2}x$ _____

Which equation from above has the greatest rate of change (slope)?

a)
b)
c)
d)

The graph shows how long, in months, it takes a tree to grow h feet.



Find the height of the tree at 10 months.

Enter your answer in the provided space. _____ feet

A tank of water was drained at a constant rate. The table shows the number of gallons of water left in the tank after being drained for the given time.

Draining Time (minutes)	Water in tank(gallons)
10	350
30	290
40	260

Part A:

What is the unit rate at which the water was drained from the tank?

Part B:

What was the total amount of water in the tank before it was drained?

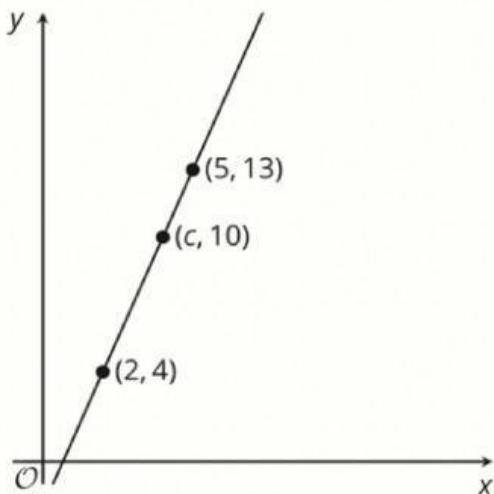
The equation below models the relation between the height y (in feet) of a tree after x years.

$$y = 4x + 3$$

Which statement is true?

- A. The initial Height of the tree is 4 feet.
- B. The tree is growing at a constant rate of 7 feet every year
- C. The tree is growing at a constant rate of 4 feet every year.
- D. The tree is not growing at a constant rate.

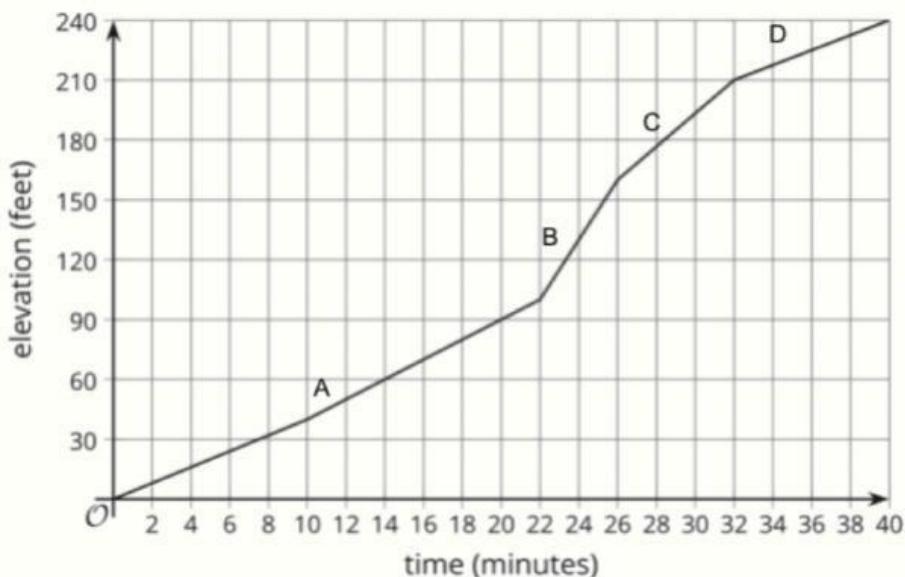
All of the points in the picture are on the same line.



What is the value of c ?

- A. 4
- B. 6
- C. 8
- D. 10

Michelle hiked up a trail for 40 minutes. The graph shows the elevation in feet that she reached throughout her hike.



Name the time period where Michelle gained elevation at the fastest rate. Enter your answer in the provided space.

- A. A
- B. B
- C. C
- D. D