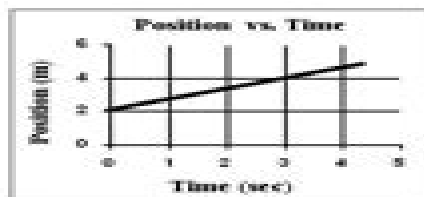


# Linear Equations and Applications

All linear equations have the general form:

$$y = mx + b \text{ (m = slope; b = y-intercept).}$$

Graphs with actual physical meaning may have different variables for the x and y axes. X and y, then, must be reassigned to make the specific form of the linear equation for that particular graph. Also, on physical graphs, the slope and y-intercept have actual physical meaning.



General Equation:  $y = mx + b$

y-axis variable: position (x)

x-axis variable: time (t)

y-intercept: 2 m (starting point)

slope:  $3\text{m}/2\text{sec} = 1.5 \text{ m/s}$  (velocity)

Specific Equation:  $x = 1.5t + 2$

What is the general equation for all linear graphs:  $y = mx + b$   
What does the y-intercept of this graph mean? initial position

Circle all good points on this graph.

Is the object moving forward or backward?

Calculate the slope of this graph (keeping units).

$$m = \frac{\Delta y}{\Delta x} = \frac{3\text{m}}{1\text{sec}} = 3 \text{ m/s}$$

What does the slope of this graph mean (look at units)?

velocity or speed (m/s)

Does this graph have a steep or shallow slope?

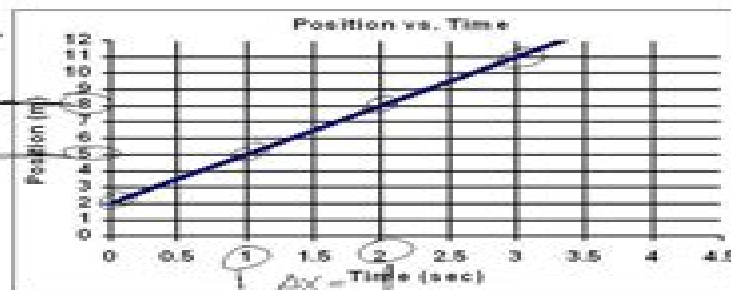
med.  
Is the object moving fast or slow? med.

Write the variables and equation for this graph (for y and x change them to the variables used on this graph):

$$\begin{aligned} y &= x \text{ (pos.)} \\ x &= t \text{ (time)} \\ b &= 2 \text{ m} \\ m &= 3 \text{ m/s} \end{aligned}$$

Linear Equation for this graph:

$$x = 3t + 2$$



Using the specific linear equation for this graph answer the following:

Where will the object be at 7 seconds?

$$x = 3(7) + 2$$

$$x = 21 + 2 = 23 \text{ m}$$

Circle all good points on the graph.

What does the y-intercept mean? initial velocity

Calculate the slope of the graph (keep units).

$$\frac{\Delta y}{\Delta x} = \frac{.2}{.8} = \frac{.1}{.4} = .25 \text{ m/s}^2$$

What does the slope of this graph mean?

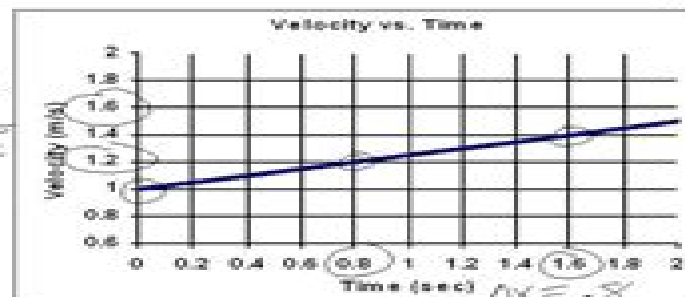
Is it a steep or shallow slope?

Write the variables and equation for this graph:

$$\begin{aligned} y &= V \\ m &= .25 \\ x &= t \\ b &= 1 \end{aligned}$$

Linear Equation for this graph:

$$V = .25t + 1$$



Using the linear equation for this graph answer the following:

When will the object be going 4 m/s?

$$V = .25t + 1$$

$$4 = .25t + 1$$

$$3 = .25t$$

$$12 = t$$

# Linear Motion 3 Stephen Murray Answers

**Peipei Pang**



## **Linear Motion 3 Stephen Murray Answers:**

## Whispering the Techniques of Language: An Psychological Quest through **Linear Motion 3 Stephen Murray Answers**

In a digitally-driven world wherever monitors reign great and instant interaction drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words usually go unheard. However, nestled within the pages of **Linear Motion 3 Stephen Murray Answers** a interesting literary treasure sporting with fresh emotions, lies an extraordinary quest waiting to be undertaken. Composed by an experienced wordsmith, that marvelous opus attracts viewers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the fabric of every word. Within the psychological depths of this touching review, we shall embark upon a honest exploration of the book is key themes, dissect its interesting publishing design, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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