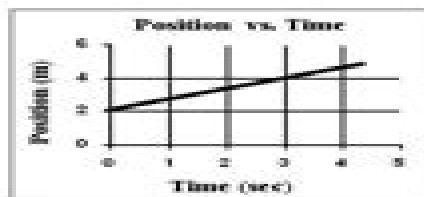


# Linear Equations and Applications

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?

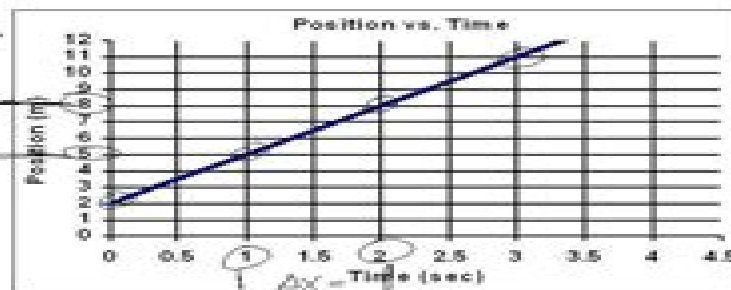
med.  
Is the object moving fast or slow? med.

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?

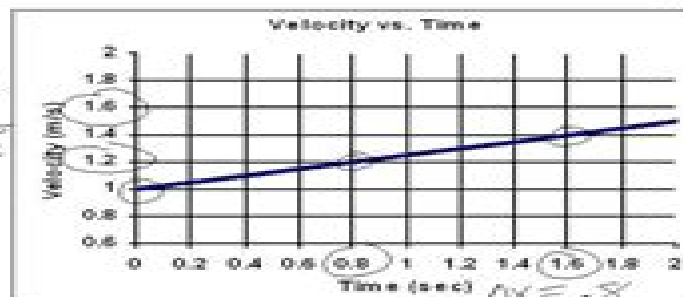
Is it a steep or shallow slope?

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?

$$V = .25t + 1$$

$$4 = .25t + 1$$

$$3 = .25t$$

$$12 = t$$

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**H Kauffman**



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