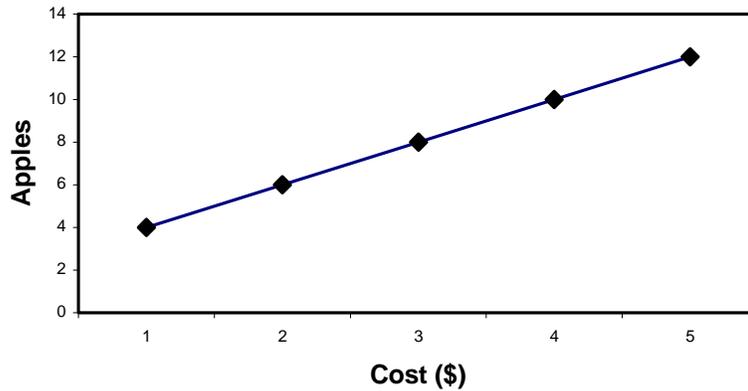


Interpreting Graphical Relationships Answer Key

1. Linear Direct Relationships ($y = mx + b$)

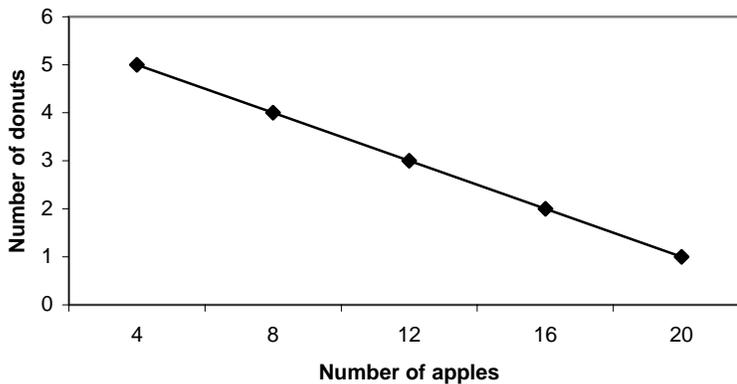


Equation: $y = 2x + 2$

Use $m = \frac{y_2 - y_1}{x_2 - x_1}$ to find the slope of the line.

Then substitute the calculated value for m and the x and y values for any point on the line into the equation $y = mx + b$ to solve for b .

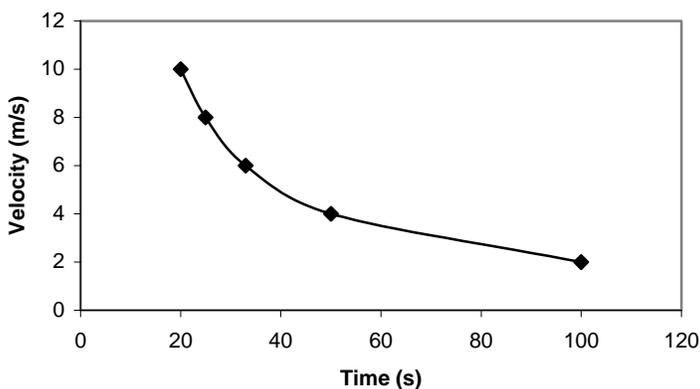
2. Linear Indirect Relationships ($y = -mx + b$)



Equation: $y = \frac{1}{4}x + 6$

Use the same strategy as in Question #1.

3. Inverse Relationship ($y = k \cdot \frac{1}{x}$ or $y = \frac{k}{x}$)



Equation:

$$y = 200 \cdot \frac{1}{x} \text{ or } y = \frac{200}{x}$$

Substitute the x and y values for any point on the line into the equation

$$y = \frac{k}{x} \text{ to solve for } k.$$