

1.2

$$\text{pt. } (0, 32) \quad (C, F)$$

$$(100, 212)$$

$$m = \frac{212 - 32}{100 - 0}$$

$$m = \frac{180}{100}$$

$$m = \frac{9}{5}$$

$$(0, 32)$$

$$y = mx + b$$

$$32 = \frac{9}{5}(0) + b$$

$$32 = b$$

$$y = \frac{9}{5}x + 32$$

$$F = \frac{9}{5}C + 32$$

1.3

## Direct Variation

$$d = rt$$

$$d = 70t$$

$$\frac{1}{70} \cdot 2 = \frac{2}{140}$$

$$y = mx$$

$m$  constant  
of variation

$y$  varies directly as  $x$

$y$  is directly proportional to  $x$

$y$  is directly proportional to  $x$

$$y = mx$$

Write linear model

$$x = 5 \quad y = 9$$

Substitute

$$y = mx$$

Solve for  $m$

$$\frac{9}{5} = m \left( \frac{5}{5} \right)$$

$$\frac{9}{5} = m$$

Write equation

$$y = \frac{9}{5}x$$

\$5

\$2.50

$$\frac{5}{2.50} = \frac{20}{x}$$

$$5x = 20(2.50)$$

$$x = 10$$

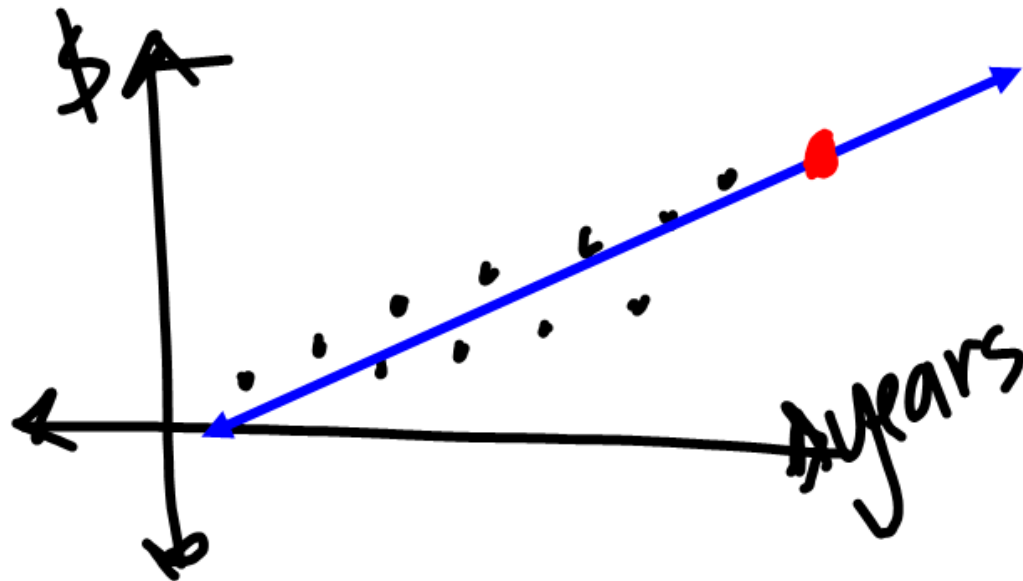
$$2.50 = m(5)$$

$$\frac{1}{2} = m$$

Linear Regression

Least Squares Line

Line of Best Fit



Stat

Edit

Clear lists

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Clear ÷ Enter

Enter your data

Set Window

Graph scatter plot

Home Screen

Stat

→ Calc

4 Lin Reg

2nd 1 L1

Comma

2nd 2 L2

Comma

Vars

→ y-Vars

1 Function

y1

Enter

Graph