

Warm-up 5/2

Solve the following system of equations using substitution, graphing, or elimination.

1. $2x - 2y = 12$

$$1x + 1y = 6$$

2. $2x + 3y = 31$

$$x = -10$$

3. Javier's construction company has been growing. He has discovered that his company has been growing by 2 workers per month. Javier started with 3 workers. Create a function to model the growth of workers in Javier's company. How many workers will he have after 1 year?

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1. $2x - 2y = 12$

$2(1x + 1y = 6)$

~~$2x + 2y = 12$~~

~~$2x - 2y = 12$~~

$\frac{4x}{4} = \frac{24}{4}$

$x = 6$

$\begin{array}{r} 6 + y = 6 \\ -6 \quad -6 \\ \hline y = 0 \end{array}$

$(6, 0)$

2. $2x + 3y = 31$

$x = -10$

$(-10, 17)$

$2(-10) + 3y = 31$

~~$-20 + 3y = 31$~~

$\frac{3y}{3} = \frac{51}{3}$

$y = 17$

3. Javier's construction company has been growing. He has discovered that his company has been growing by 2 workers per month. Javier started with 3 workers. Create a function to model the growth of workers in Javier's company. How many workers will he have after 1 year?

$y = 2x + 3$

x-month

y-# of workers

1 year = 12 months

$y = 12(2) + 3$

$y = 24 + 3$

$y = 27$

27 workers

$$y = 0.16x - 0.30$$

x - \$ meal

y - tip

$$y = 0.16(10.5) - 0.3$$

$$y = 1.38$$

\$1.38

$$y = 6.09x + 63.93$$

$$x = 6 \quad y = 6.09(6) + 63.93$$

$$y = 100.47$$

100%

$$y = 0.42x - 19.81$$

$$y = 10.5$$

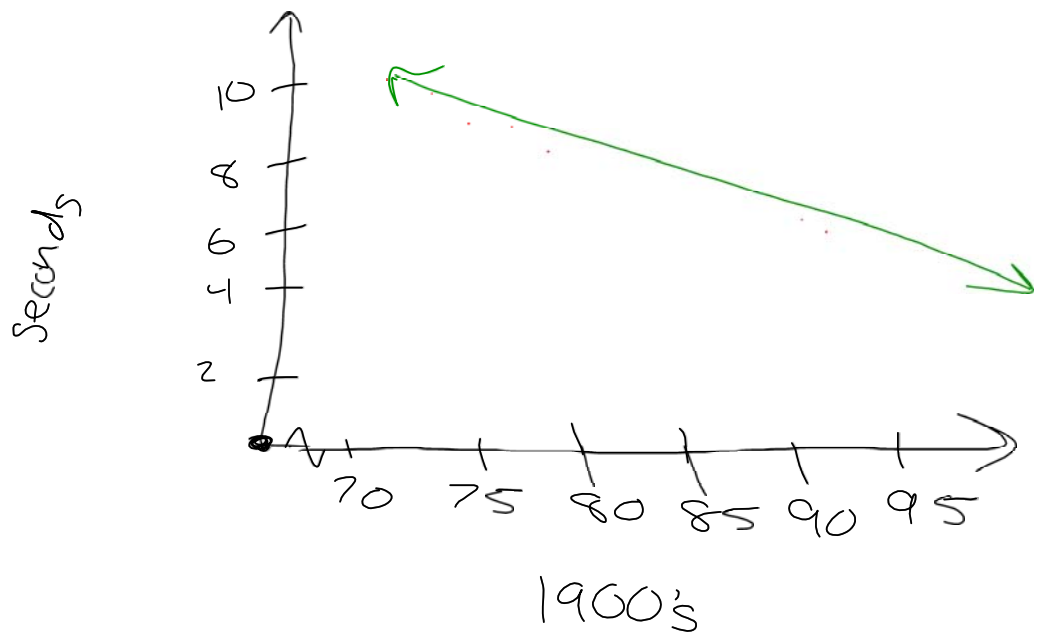
$$10.5 = 0.42x - 19.81$$

$$+19.81$$

$$+19.81$$

$$\frac{30.31}{0.42} = \frac{0.42x}{0.42}$$

$$x = 72.2 \text{ in}$$



Complex solutions $i = \sqrt{-1}$

$$\frac{1 \pm \sqrt{4}i}{3}$$

$$\frac{1 \pm \sqrt{-4}}{3}$$

Correlation Coefficient

Choose your lowest score in the following categories (1-3) and do a practice from it.

1. Interpreting Functions (22%)
2. Reasoning with Equations and Inequalities (20%)
3. Linear, Quadratic, and Exponential (15%)

Choose your 2nd lowest from categories 1-5 and do a practice from it.

4. Structure and Expressions (11%)
5. Creating Equations (11%)