

key

Sept. 3 Worksheet

1. What are the x and y intercepts of the following equations? What are the slopes?

o $3x + 9y = 18$

x-int = 6, (6, 0)

slope = $-\frac{1}{3}$

y-int = 2, (0, 2)

o $y = 5x + 10$

x-int = -2, (-2, 0)

slope = 5

y-int = 10, (0, 10)

2. Using Desmos, graph the table below and find what type of correlation it is.

x	2	2.5	4	8	5	6	7	7	5	9
y	4	2	2.5	6	2	4.4	7	4.2	7	8



Weak positive

3. Change the following decimals/fractions into percent form

.763

$\frac{3}{7}$

1.46

$\frac{5}{9}$

76.3%

42.9%

146%

55.6%

4. A piece of machinery is worth \$120,000 at the time of purchase. It will be worth \$75,000 in four years. What is the depreciation of this function?

$$y = -11250x + 120000$$

$-\$11250$ per year

How long will it be until it is worth \$0?

10.67 years

5. A new car was purchased for \$27,500, and after 5 years it is now worth \$21,100. Find the linear depreciation equation.

$$y = -1280x + 27500$$

How much is the car worth in 10 years?

\$14,700