

Sept. 3 Worksheet

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

○ $3x + 9y = 18$

○ $y = 5x + 10$

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

3. Change the following decimals/fractions into percent form

.763

$\frac{3}{7}$

1.46

$\frac{5}{9}$

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?

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

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

How much is the car worth in 10 years?