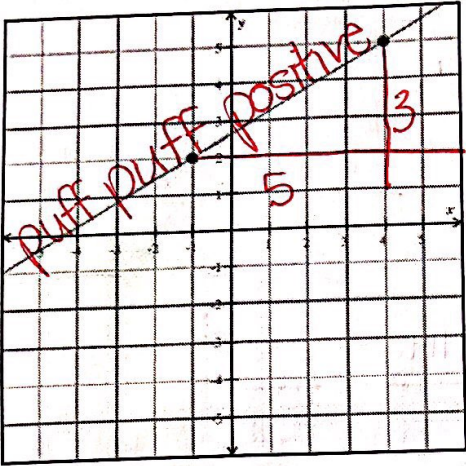


Name: Answer Key
Date: _____

Section: _____

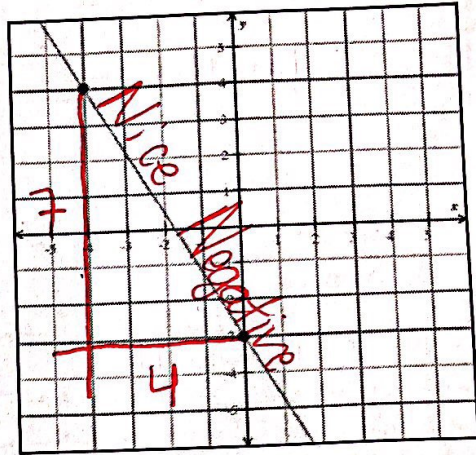
Unit 3 Concept 3 Pre-Quiz

1. Find the slope of the line graphed below.



Slope: $\frac{3}{5}$

2. Find the slope of the line graphed below.



Slope: $-\frac{7}{4}$

3. Find the slope of the line passing through the points $(-1, 4)$ and $(-7, 2)$.

Slope: $\frac{1}{3}$

$$\frac{2-4}{-7+1} = \frac{-2}{-6} = \frac{1}{3}$$

4. Find the slope of the line passing through the points $(-3, 7)$ and $(2, -6)$.

Slope: $-\frac{13}{5}$

$$\frac{-6-7}{2+3} = \frac{-13}{5}$$

5. Fill in the blanks below.

Find the slope of the line passing through the points $(-3, -6)$ and $(7, -6)$.
slope: <input type="text"/> $\frac{-6+6}{7+3} = \frac{0}{10}$
Find the slope of the line passing through the points $(7, 8)$ and $(7, -7)$.
slope: <input type="text"/> $\frac{7-8}{7-7} = \frac{-1}{0}$

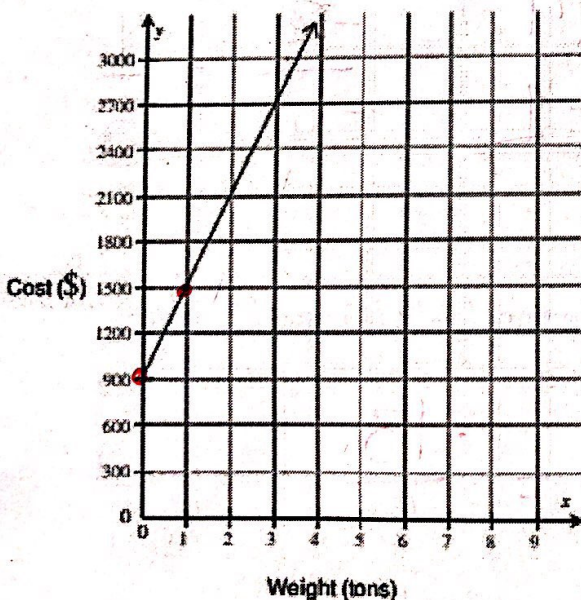
remember if zero is underneath it is undefined

6. Fill in the blanks below.

Find the slope of the line passing through the points $(3, 7)$ and $(3, -3)$.
slope: <input type="text"/> $\frac{-3-7}{3-3} = \text{undefined}$
Find the slope of the line passing through the points $(-4, 8)$ and $(3, 8)$.
slope: <input type="text"/> $\frac{8-8}{3+4} = \frac{0}{7} = 0$

7. The Sugar Sweet Company needs to transport sugar to market. The graph below shows the transporting cost (in dollars) versus the weight of the sugar being transported (in tons).

Use the graph to answer the questions.



$(0, 900) (1, 1500)$

$\$1500 - \$900 = \$600$

$\frac{1500 - 900}{1 - 0} = \frac{600}{1}$

(a) How much does the cost increase for each ton of sugar being transported?

\$600

(b) What is the slope of the line?

600