Algebra 1 6th Bellwork Thursday, January 14, 2016

1. Find the rate of change. Give your answer as a decimal rounded to the nearest tenth and include units on your answer.

a.

Gallons	Miles
3	127
5	211
8	337
12	505

b. 800 و و و 200

2. Find the slope of the line that passes through each pair of points.

- a) (-8, 13)
- &
- (-8, -12)
- b) (5,3)
- (-4, 15)

d)
$$(7,-8)$$
 & $(4,7)$

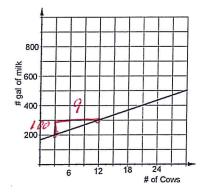
Algebra 1 6th Bellwork Thursday, January 14, 2016 Answers

b.

1. Find the rate of change. Give your answer as a decimal rounded to the nearest tenth and include units on your answer.

$$\frac{\Delta Y}{\Delta X} = \frac{211 - 127}{5 - 3} = \frac{84}{2}$$
= 42

Gallons	Miles
3	127
5	211
8	337
12	505



$$\frac{\Delta y}{\Delta x} = \frac{100 \text{ gal}}{9 \text{ cows}} = \frac{11,19 \text{ gal}}{\text{cow}}$$

2. Find the slope of the line that passes through each pair of points.

- a) (-8, 13)
- & (-8,-12)
- b) (5,3)
- & (-4,15)

$$M = \frac{15-3}{-4-5} = \frac{12}{-9} = \frac{4}{3}$$

$$m = \frac{2-2}{11-3} = \frac{6}{14} = 0$$

d)
$$(7,-8)$$
 & $(4,7)$

$$m = \frac{7 - -8}{4 - 7} = \frac{15}{-3} = (-5)$$