APRIL 7, 2016

UNIT 6: LINEAR RELATIONS

4.4: MATCHING EQUATIONS AND GRAPHS

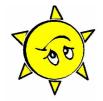
M. MALTBY INGERSOLL AND T. SULLIVAN MATH 9



WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Patterns and Relations 2" OR "PR2" which states:

"Graph linear relations, analyze the graph and interpolate or extrapolate to solve problems."



Warm-Up Grade 9



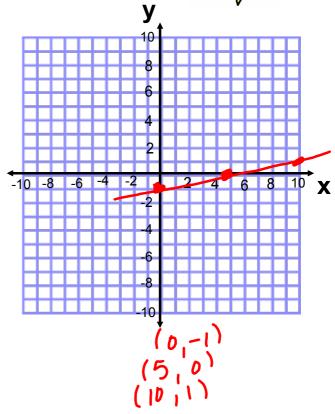
Graph the following equation. If you use a table of values, choose "nice" numbers for x.)

$$\frac{1}{5}x - y = 1$$

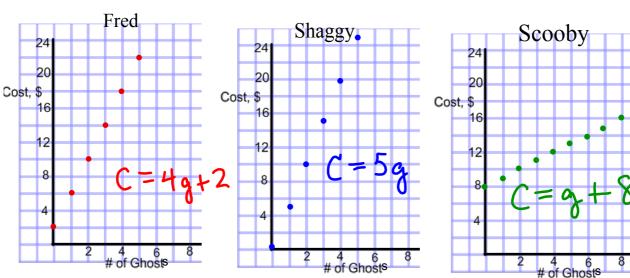
$$\frac{1}{5}x - y = 1$$

$$\frac{1}{5}x - 1 = y$$

$$\frac{1}{5}x - 1 = \frac{1}{5}x - 1$$



to find ghosts. Each ghost hunter charges a different rate. These graphs show how the cost is related to the number of ghosts caught.



Match each graph with its equation:

$$C = g + 8$$

$$C = 5g + 0$$

$$C = 4g + 2$$

Explain your strategy:

- * Did you use 'y = mx + b'?
- * Did you plug in a value for g' and see what 'C' is? (ex: g = 1)
- * Did anyone use a different strategy?

Substitute points from graphs:

$$(4,12)$$
 $(3,15)$ $(2,10)$
 $C = 4g+2$ $(2+2)$ $(2+2)$
 $12 = 4(4)+2$ $15 = 4(3)+2$ $10 = 4(2)+2$
 $12 = 16+2$ $15 = 12+2$ $10 = 8+2$
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CONCEPT REINFORCEMENT:

MMS9:

page 188: #3 <u>TO</u> #5

page 189: #6 TO #9