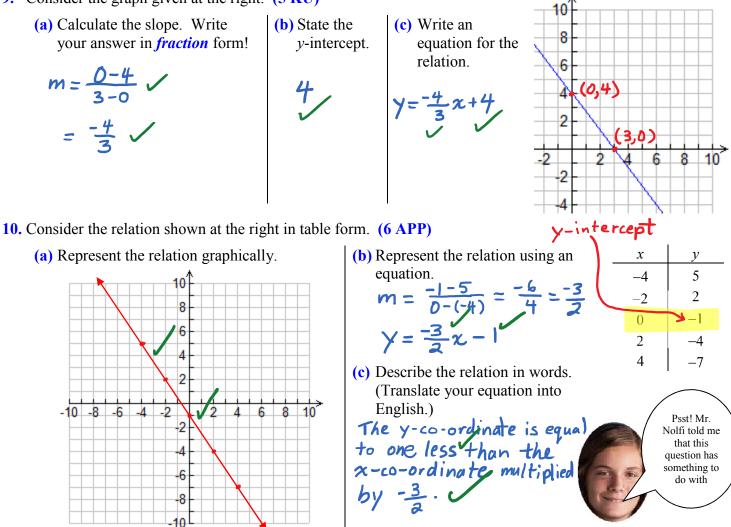
	emester 1, 2013 - 2014
Grade 9 Academic Math Unit 3 – Analytic Geometry – Major Test	
Mr. Nolfi, Ms. Matei	APP TIPS COM
Victim: <u>Mr. Solutions</u> result Mr. 21 13/13	3 23/23 14/14 10/10
Modified True/False (3 KU)	
Indicate whether each statement is <i>true</i> or <i>false</i> . If false, <i>change</i> the <u>underlined part</u> to	o make the statement true.
1. <u>FV</u> <u>Partial</u> variation occurs when the ratio of the dependent variable to <u>Partial</u> variation occurs when the ratio of the dependent variable to <u>Partial</u> variation occurs when the ratio of the dependent variable to <u>Change</u> : <u>Direct</u> <u>V</u>	
_ X	nge: <u>slope</u>
represent the same concept for a linear relation.	
	nge: <u>slope</u>
<i>m</i> represents the <u>fixed, or initial value of <math>y</math></u> and <i>b</i> represents the vertical interval.	constant of Variation
<i>Multiple Choice</i> (5 KU) For questions 4 to 8, select the <i>best</i> answer. Write the letter of your choice in the provident	ded blank space
4. $b\checkmark$ Three points are shown at the right. Between which two points can you	ини стала ороност у
draw a line with a <i>negative</i> slope?	4- A_2-
(a) B and C (b) A and B (c) A and C (d) None of these	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
5. <b>b</b> Find the slope of the line that passes through the points $(-1, 9)$ and $(-5, 2)$ .	∆y <b>2-9</b> -7
(a) $\frac{7}{6}$ (b) $\frac{7}{4}$ (c) $-\frac{7}{4}$ (d) $-\frac{7}{6}$	$\overline{\Delta \chi} = -\overline{5} - (-1) = -4$
6 Use first differences to determine which relation at the right is linear.	A B
(a) Only A. (b) Only B. (c) Both A and B. (d) Neither	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
7 Which of the following equations represents a partial variation?	0 10 5 0
(a) $y = -5x + 8$ (b) $y = -5x$ (c) $y = -x^5 + 8$	(d) Both(a) and (c)
8. $b \checkmark$ Which of the following graphs represents a partial variation?	$(\mathbf{D}, \mathbf{D}, \mathbf{d}, \mathbf{c}) = 1(\mathbf{d})$
(a) (b) (c) $\sqrt{2}$	(d) Both (a) and (b)

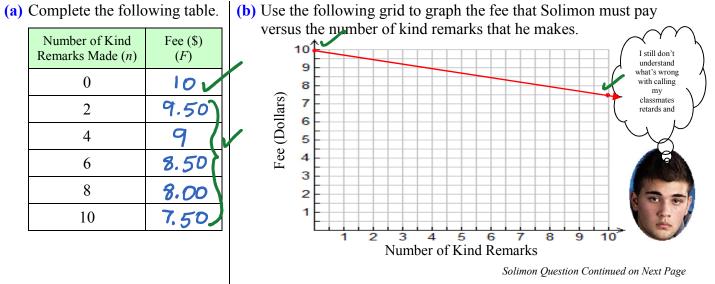
## **Full Solutions**

Write complete solutions for each of the following problems.

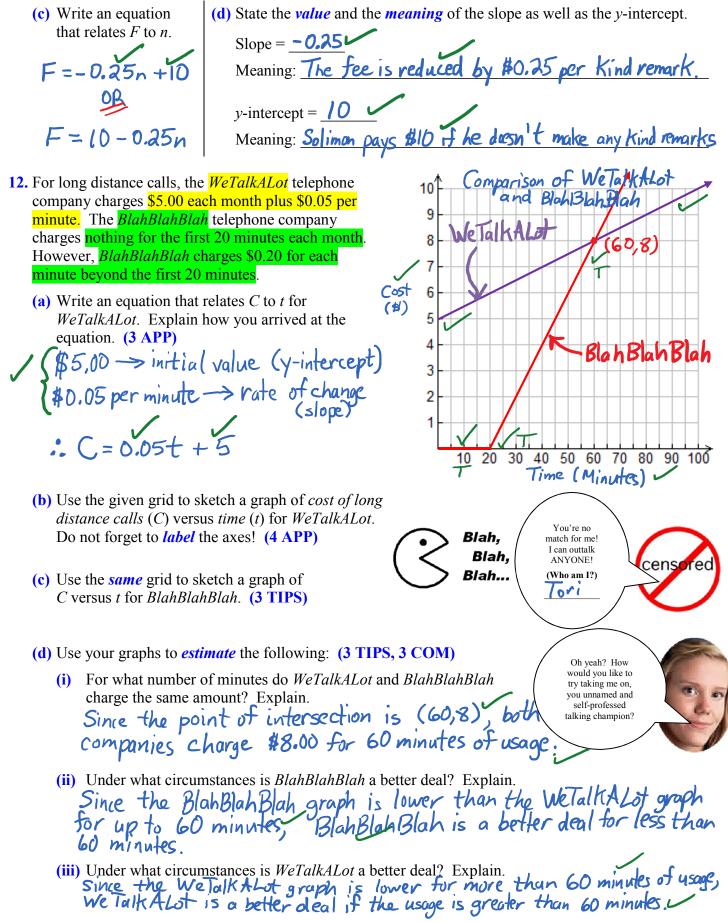
9. Consider the graph given at the right. (5 KU)



 Solimon is well known for making inappropriate remarks. To discourage this behaviour, Mr. Nolfi charged Solimon a \$10.00 fee for every class attended. To decrease the amount of money Solimon had to pay, Mr. Nolfi agreed to *reduce* the fee by \$0.25 for every *kind remark* that Solimon made. (10 APP)



Continuation of Solimon Question



14. The shapes shown below are constructed out of toothpicks. (8 TIPS)

