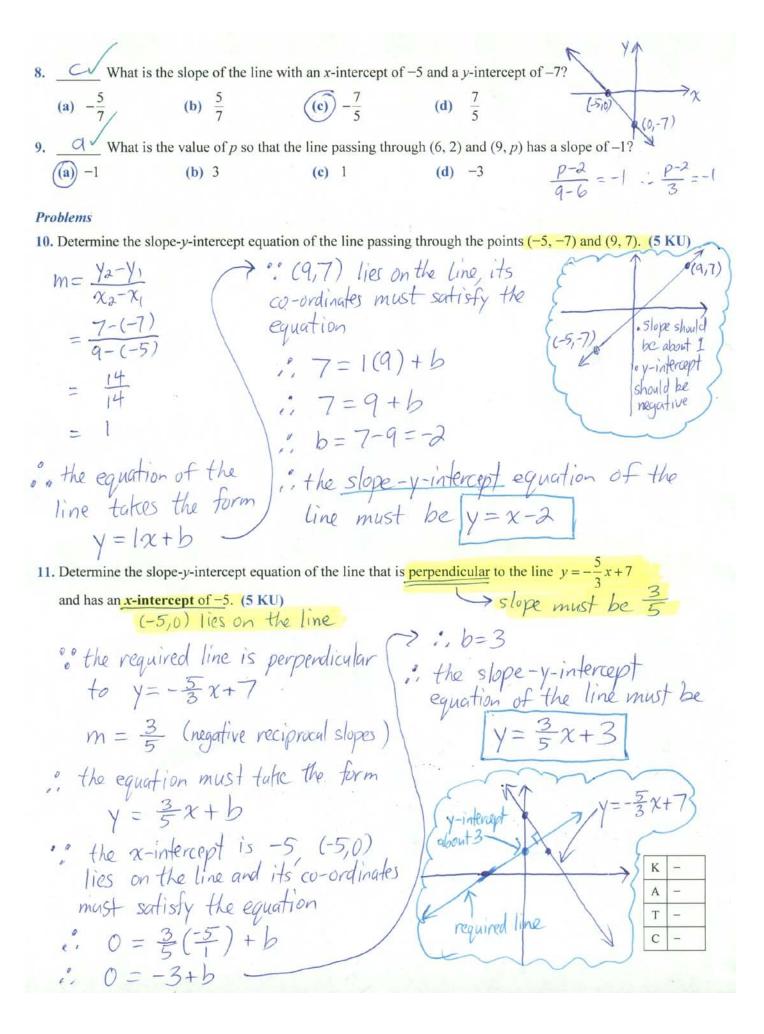
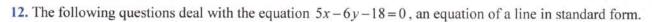
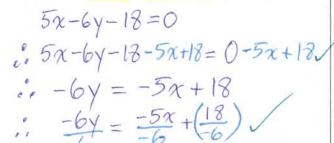
MPM 1D0 Semester 2, 2011 - 2012 **Grade 9 Academic Math** Unit 4 Test - Linear Relations Ms. Matei, Mr. Nolfi APP KU TIPS COM Victim: 22/22 /21 6/16 10/10 INSTRUCTIONS - Read each question carefully!! For full marks, show all work where required. Matching 1. Match each item with the correct statement below. (4 KU) A. perpendicular lines B. standard form D. reciprocals c. parallel lines 8. x-intercept E. slope P. v-intercept H. point of intersection These lines have the same slope. For a horizontal line, this is zero. These lines meet at 90°. This is where two lines meet. For the line y = 3x + 6, this is 6. The numbers 3 and 1/3 are examples. For a vertical line, the value of x is constant This is the name for an equation of a line in the form Ax + By + C = 0. and equal to this. Modified True/False Indicate whether each statement is *true* or *false*. If false, change the underlined part to make the statement true. (4 KU) x = 4 is the equation of a horizontal line. Change: The x-intercept of the line x - y = 3 is -3. y = 5x + 4 and 5x - y - 4 = 0 represent the same line. Change: In a distance-time graph, the y-intercept is the speed. Change: Multiple Choice Identify the choice that best completes the statement or answers the question. (4 KU) For the line 2x-5y-10=0, which statement is true? The x-intercept is 5, and the y-intercept is 2. The x-intercept is -5, and the y-intercept is -2. The x-intercept is -2, and the y-intercept is 5. The x-intercept is 5, and the y-intercept is -2. What are the slope and y-intercept of the given line? -0

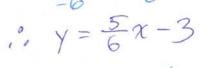
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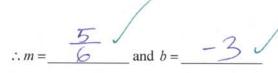




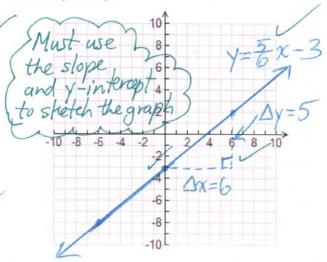
(a) Write the equation in the form y = mx + b and state the slope and y-intercept. (4 APP)

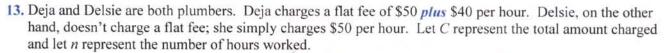






(b) Use the slope-y-intercept form of the equation that you found in (a) to sketch a graph of the line. (3 APP)

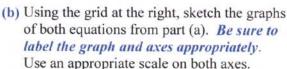




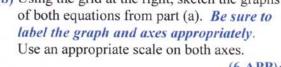
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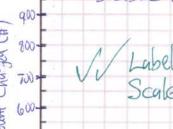
(a) For each plumber, write an equation relating C to n. (3 APP)

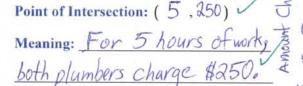
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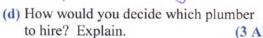


(c) State the point of intersection and explain what it represents in this situation. (2 APP)









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