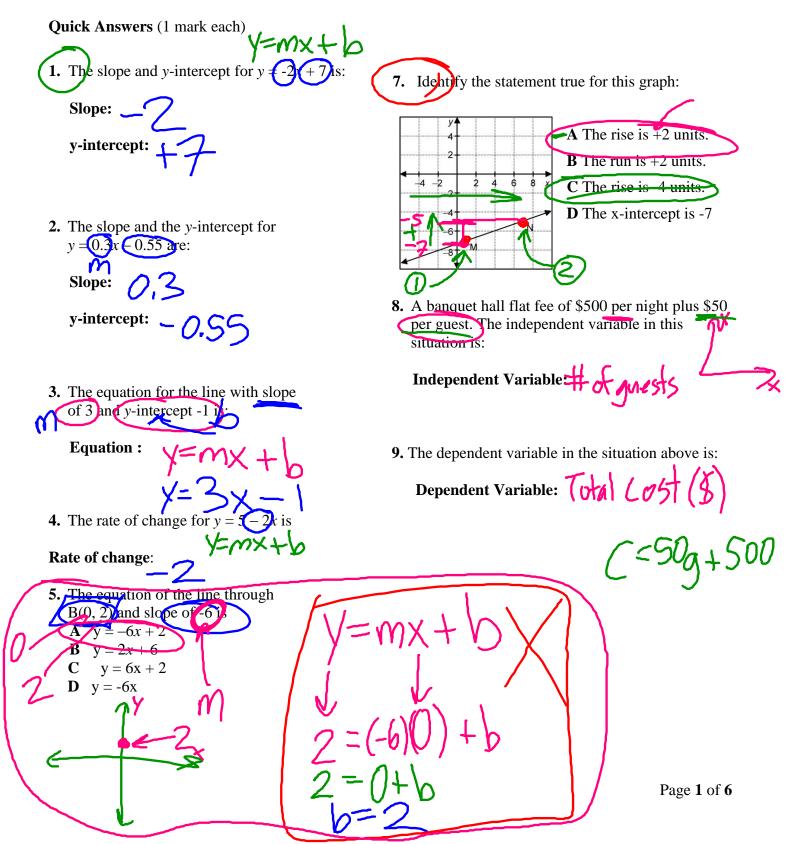
Name:

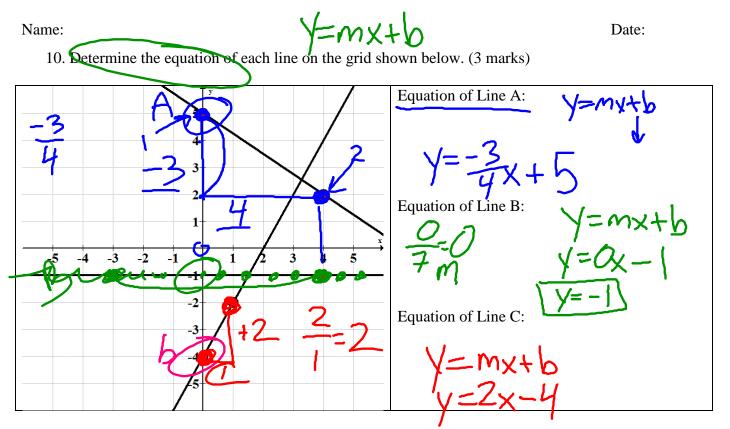
Unit 3 Pratice Test – Equations of Lines

Instructions:

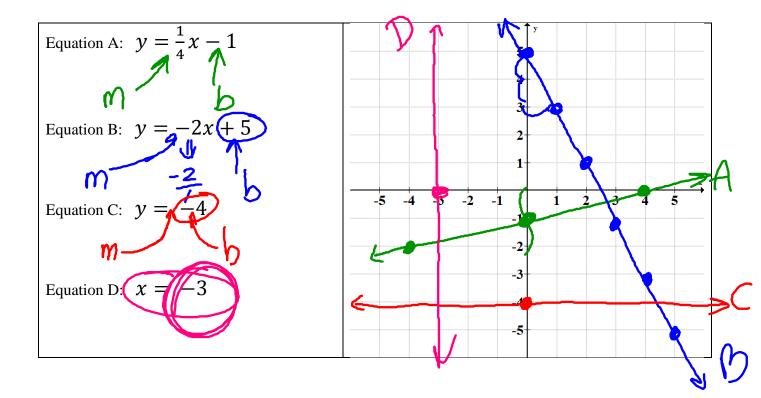
- 1. Write all answers on test paper in pencil
- 2. Show all of your work!

Part A: Knowledge and Understanding





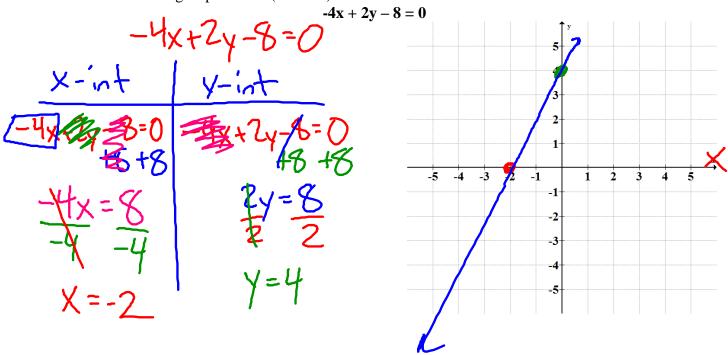
11. Graph the equations given below on the axes provided. (6 marks)



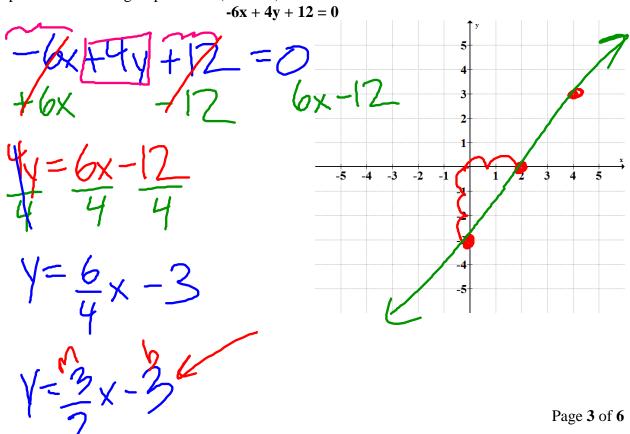
Name:

Part B: Application

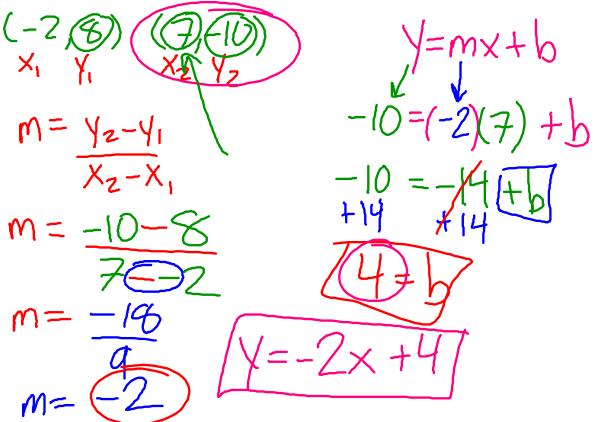
1. Determine the x-intercept and y-intercept of the standard form equation given below, then graph the line on the grid provided. (6 marks)



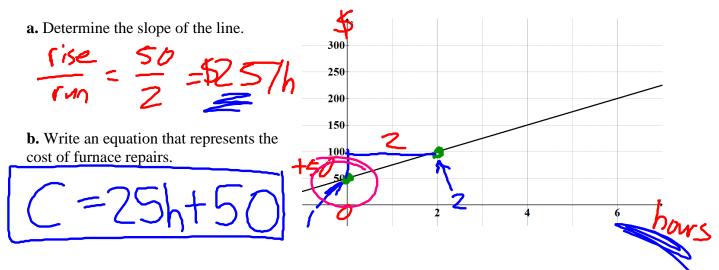
2. Rearrange the standard form equation given below into slope y-intercept form (y = mx + b), then graph the line on the grid provided. (4 marks)



3. Determine the equation of the line that goes through the points (-2, 8) and (7, -10). (4 marks) **YOU MUST DO THIS WITHOUT GRAPHING, SHOW ALL OF YOUR WORK**



4. The graph below is used to determine the cost of a service call for furnace repairs. The x-axis represents the number of hours and the y-axis the total cost. (2 marks)



Part C: Thinking Inquiry and Problem Solving

After trick or treating, Clark has 63 chocolate bars. He eats 7 per day.
a) Write an equation to model the situation. (2 marks)

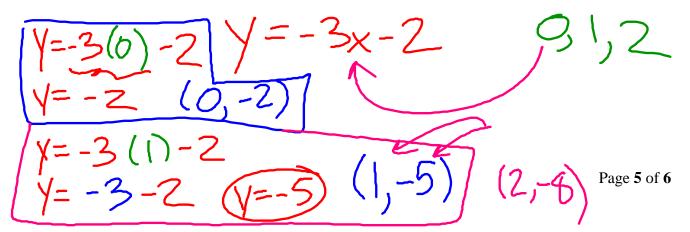
-78+63

b) How many chocolate bars does Clarke have left after 3 days? (1 mark)

c) After how many days does Clarke run out of chocolate bars? (1 mark) 2 chocolate bars After A bags, Clarke **ゝく=**〇 have no chocolate loft 2. Determine the y-intercept of the line with a slope of 3 through the point (-2) $(2 \text{ marks})^{\boldsymbol{\zeta}}$ (2) + b

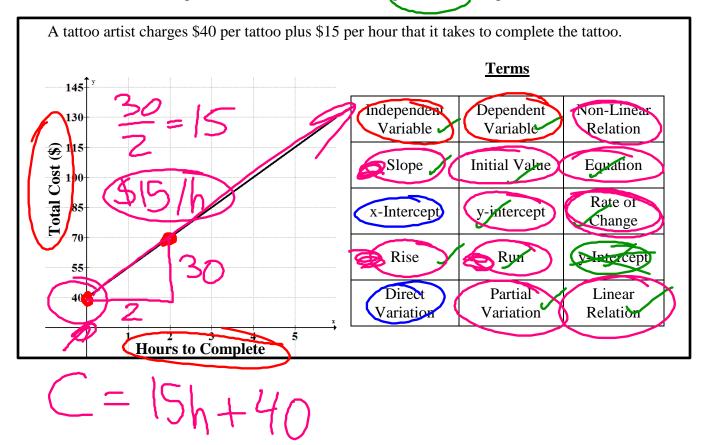
3. The equation of a line is y = -3x - 2

Determine the coordinates of any 3 different points that lie on this line. (3 marks) YOU MUST DO THIS WITHOUT GRAPHING, SHOW ALL OF YOUR WORK



Part D: Communication

1. Write a description of the situation below using **6** of the terms provided in the table. (3 marks)



Describe or list the steps that you would take to sketch a graph of the line represented by the equation

