

MTH-3017

Pretest DA

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1. Solve with a graph. Indicate the scale chosen. (10 marks)

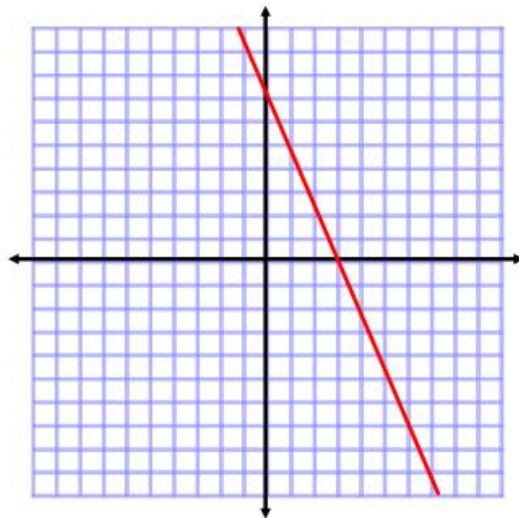
George paid his daughter 50¢ for 70 snow peas she harvested from the garden. The next day he paid his daughter \$2.00 for 310 snow peas. If a straight line equation applies to this situation, and if the daughter picked 220 snow peas on the third day, how much would she be paid?

2. Graph the following equation. Identify three points, including all intercepts, in a table of values, and label three points on the graph. (10 marks)

$$x - 4 = y + 7$$

3. In the following graph, identify the type of slope. (2 marks)

- a) Positive
- b) Negative
- c) Equal to Zero
- d) Undefined



4. Find the slope of the line that goes through the points (2, -3) and (-3, -3). (4 marks)

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5. Using the form $y = mx + b$, identify the slope and y-intercept of the following straight line equation. (2 marks)

$$2x - \frac{y}{2} = -3$$

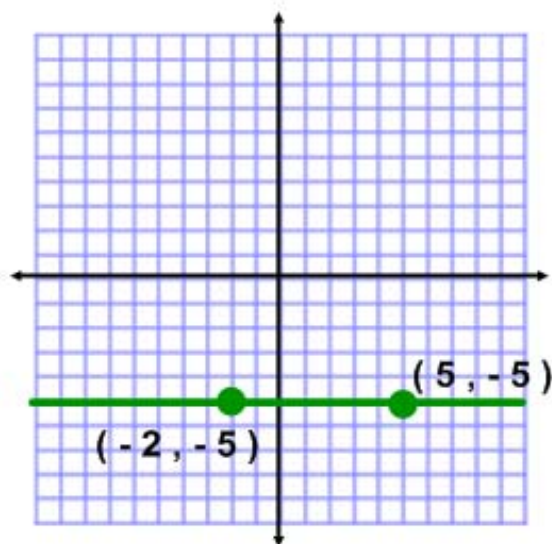
6. Graph the following equation. Identify three points, including all intercepts, in a table of values, and label three points on the graph. (10 marks)

$$\frac{1}{2}y - \frac{3}{4}x = 3$$

7. Using the form $Ax + By + C = 0$ and the formula $m = \frac{-A}{B}$, find the slope of the following straight line equation. (4 marks)

$$\frac{x}{3} - \frac{y}{9} - \frac{2}{3} = 0$$

8. Derive the equation of the following straight line. Express the equation in either the $y=mx+b$ format or the $Ax+By+C=0$ format. (10 marks)



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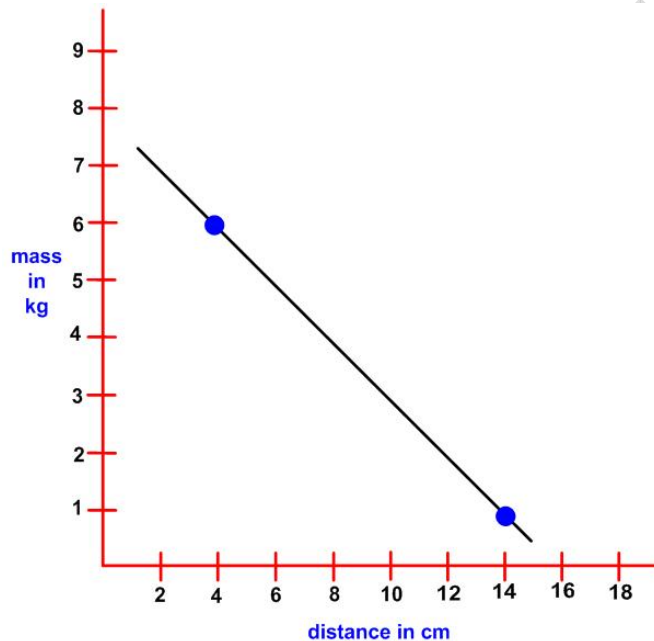
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9. Solve with a graph. Indicate the scale chosen. (10 marks)

When I went tubing, I slid down the hillside 7 times and was charged \$11.50. My brother Samir slid down the hillside 9 times and was charged \$16.00. If a straight line equation applies to this situation, and if my other brother Najid slid down the hillside 13 times, how much was he charged?

10. For the following graph, give the slope with its unit of measure. (4 marks)



11. Graph the straight line that goes through the point $P(-6, -1)$ and has a slope of $\frac{6}{7}$. Identify two points on the line. (4 marks)

12. Graph the following equation. Identify three points, including all intercepts, in a table of values, and label three points on the graph. (10 marks)

$$2x = 5$$

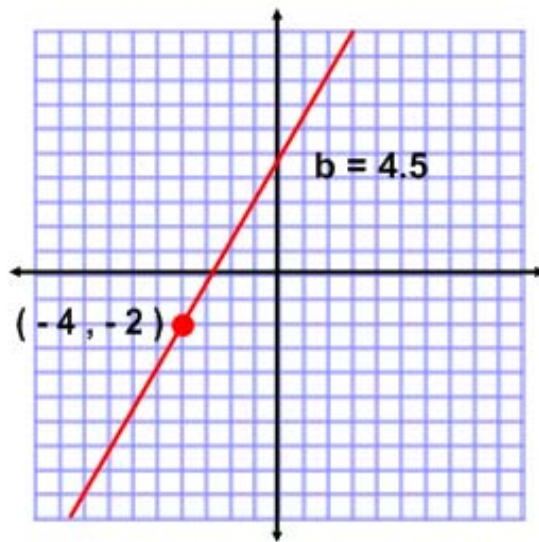
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13. Derive the equation of the following straight line. Express the equation in either the $y=mx+b$ format or the $Ax+By+C=0$ format. (10 marks)



14. Derive the equation of the following straight line. Express the equation in either the $y=mx+b$ format or the $Ax+By+C=0$ format. (10 marks)

