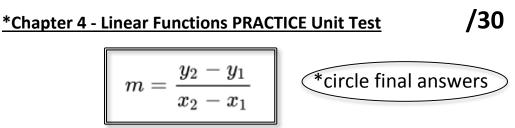
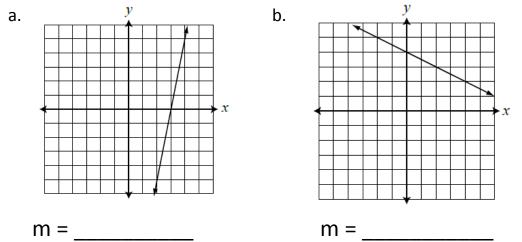
Name: _______Block: _____

FOM 10

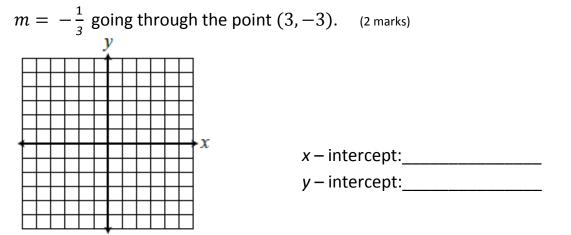


1. Determine the slope of the following graphs (1 mark each):



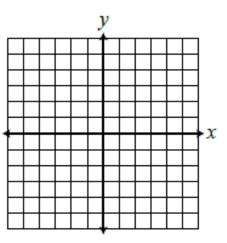
2. Find the slope of the line containing each pair of points (1 mark each): a. (2, 1) and (5, 6)b. (-4, 1) and (-2, -5)

3. Determine the x-intercept and y-intercept of the linear equation with slope

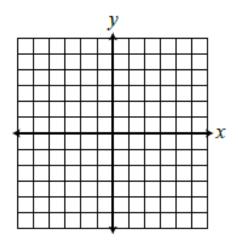


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4. Draw a line with a slope of m = undefined that has a x-intercept of 5 (1 mark).



5. Draw a line with a slope of m = 0 and has a y-intercept of -4 (1 mark).



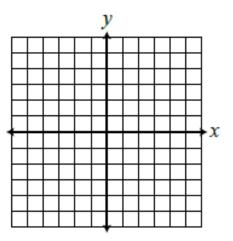
6. Find a number *n* so that the line passing through the points (n, 8) and (-2, -4) has a slope of 3 (2 marks).

7. Determine whether Line 1, passing through the first pair of points, is **parallel, perpendicular** or **neither** to Line 2, passing through the second pair of points (3 marks):

Line 1 through (4,-1) and $(6,2)\;$, Line 2 through (-6,-6) and $(4,9)\;$

8. Find the slope of a line that is **perpendicular** to a line that passes through (-5, 1) and (4, -2) (2 marks).

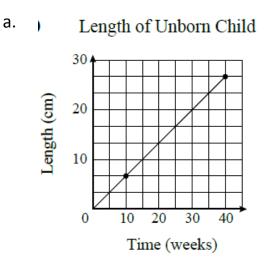
9. Show that the points A(1,3) , B(4, -3) and C(0, -5) are vertices of a right triangle. (3 marks)



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10. The line through (-6, y) and (2, -5) is **parallel** to a line with slope $\frac{-5}{4}$. Find the value of y. (2 marks)

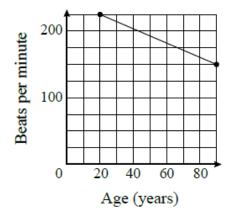
11. Given the following graphs, determine the rate of change: (2 marks each)



Rate of change:_____



Maximum Heart Rate



Rate of change:_____

Name:		
	Block:	

- 12. A **3 year old** car is worth \$24750, and will be worth \$4650 when it is**18 years old**. (* Assume relationship is LINEAR)
 - a. Write the equation that shows the Value of the car (V) <u>depends on</u> the depreciation rate (d), the number of years old it is (n), and the value of the car when it was new, or the initial value (i) (1 mark)
 - b. Find the yearly depreciation of the car (rate of change). (1 mark)

c. Find the price of the car when it was new (the initial value, or *i*). (1 mark)

d. What is the linear equation that describes this relation, and what is the Value of the car when it is **11 years old**. (2 mark)

e. After how many years will the cars' value be \$19,390? (1 mark)