



Second Exam

Name: _____

Grade: 11

Subject: Mathematics

Date: _____

Question One: Choose the correct answer:**((10 marks))****1) Which of the following inequalities is false?**

- (a) $3 > 2$ (b) $3(-1) < 2(-1)$ (c) $-3 > -2$ (d) $-3(1) < -2(1)$

2) The set of values of x from $4x - 2 > 5 - 3x$ is:

- (a) $1 > x$ (b) $x > 3$ (c) $x > 1$ (d) $x < 3$

3) The expression $x + 3 < 9 < 4x + 1$ in the form $a < x < b$ is:

- (a) $2 < x < 6$ (b) $-2 < x < 6$ (c) $4 < x < 6$ (d) $4 < x < 9$

4) The integer x for which $4 < x - 2 < 8$ and $9 < 2x + 1 < 17$ is:

- (a) 7 (b) -7 (c) -6 (d) 6

5) Given that $5 \leq x \leq 7$ and $6.5 \leq y \leq 9.5$, the smallest value of $\frac{x}{y}$ is:

- (a) $5/6.5$ (b) $7/6.5$ (c) $5/9.5$ (d) $7/9.5$

6) The length of a line segment with end points at A(7,8) and B(4,4) is:

- (a) 5 (b) -5 (c) -4 (d) 4

7) The midpoint M of a line segment with end points at A(2,5) and B(6,7) is:

- (a) M(-4,-2) (b) M(4, 2) (c) M(-4, 6) (d) M(4,6)

8) The gradient of $2x + 4y - 1 = 0$ is:

- (a) -1/2 (b) 1/2 (c) 2 (d) -2

9) The gradient of a line parallel to the x-axis is:

- (a) 1 (b) -1 (c) 0 (d) Undefined

10) The gradient of a line segment AB with end points at A(7,8) and B(3,4) is:

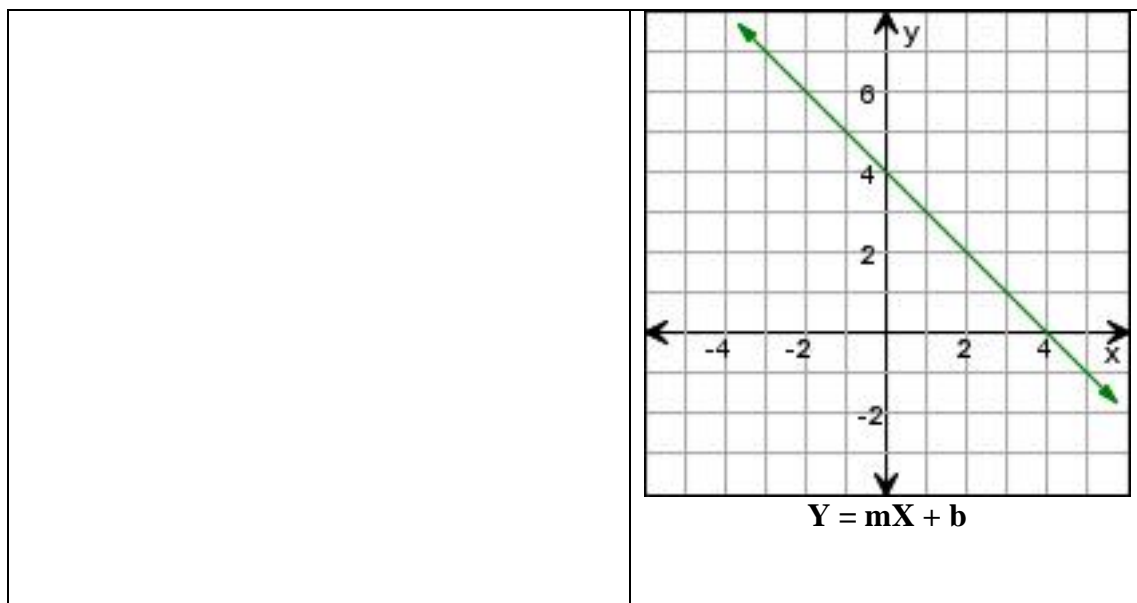
- (a) 4 (b) -4 (c) -1 (d) 1

Question Two:**((6 marks))**Represent the set of values of x on the number line such that $x < 5$, if x represents:

a	Positive integers	
b	Non-negative real number	
c	Real numbers	

Question Three:**((4 marks))**

From the following figure, write the equation of the line?



Best wishes
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