



**Spring Hill International School**

**Quiz no.3**

Scholastic Year 2020/ 2021

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Student's Name:

Class & Section: Grade 8

Teacher's Name: Raghda Ziad

Subject: Math / Checkpoint

Test Duration: 10 mins

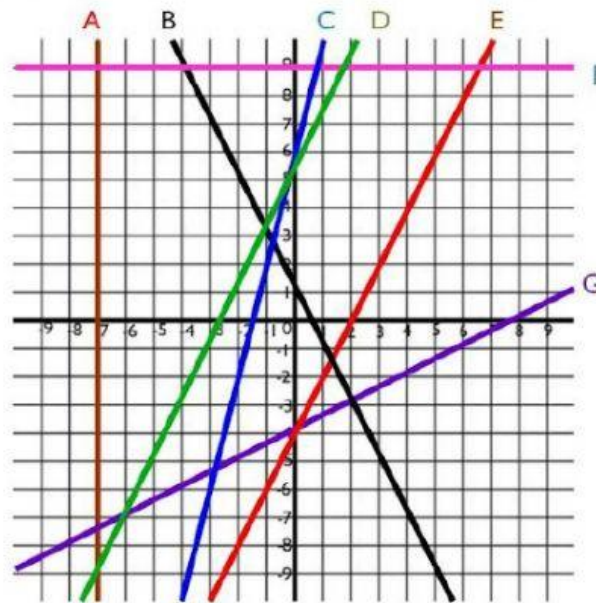
Date: 16/ March / 2021

No. of Questions: 3

No. of Pages: 1

Question Number	Q.1	Q.2	Q.3	Total Mark
Student's Mark				
Question Mark	1.5	2	1.5	5

### Task 1



1. Which lines have a y-intercept at:
  - a. 1?
  - b. 6?
  - c. -4?
2. Which lines have a gradient (slope) which is:
  - a. positive?
  - b. negative?
  - c. zero?
  - d. infinite?
3. Which lines are parallel?

### Task 2

Complete the following sentences, using these words:

steeper (0,2) (0,-3) steep y-intercept gradient shallower parallel crosses negative equal

- 'm' tells us the \_\_\_\_\_. This is how \_\_\_\_\_ the line is.
- 'c' tells us the \_\_\_\_\_. This is where the line \_\_\_\_\_ the y-axis.
- The y-intercept of line  $y = x + 2$  is \_\_\_\_\_.
- The y-intercept of line  $y = x - 3$  is \_\_\_\_\_.
- $y = 4x$  is \_\_\_\_\_ than  $y = 2x$ .
- $y = \frac{1}{2}x$  is \_\_\_\_\_ than  $y = 3x$ .
- $y = -2x$  has a \_\_\_\_\_ gradient, so the line goes downhill (from left to right).
- $y = 2x + 1$  and  $y = 2x - 3$  have \_\_\_\_\_ gradients so they are \_\_\_\_\_ lines.

### Task 3

Match each line on the axis above to an equation.

$y = 2x - 4$      $y = \frac{1}{2}x - 4$      $y = 4x + 6$      $y = 2x + 6$      $y = -2x + 1$      $x = -7$      $y = 9$

