

Grade VII (Mathematics)

Gradient and Straight line Graph

Name: \_\_\_\_\_ Section: \_\_\_\_\_ Date: \_\_\_\_\_

Q1) Find the gradient of the line joining the points A(-4, 1) and B(6, 6).

Q2) A is the point with coordinates (4, 1). B is the point with coordinates (7, 22). Find the gradient of AB.

Q3) A is the point (3, 1). B is the point (a, 11).

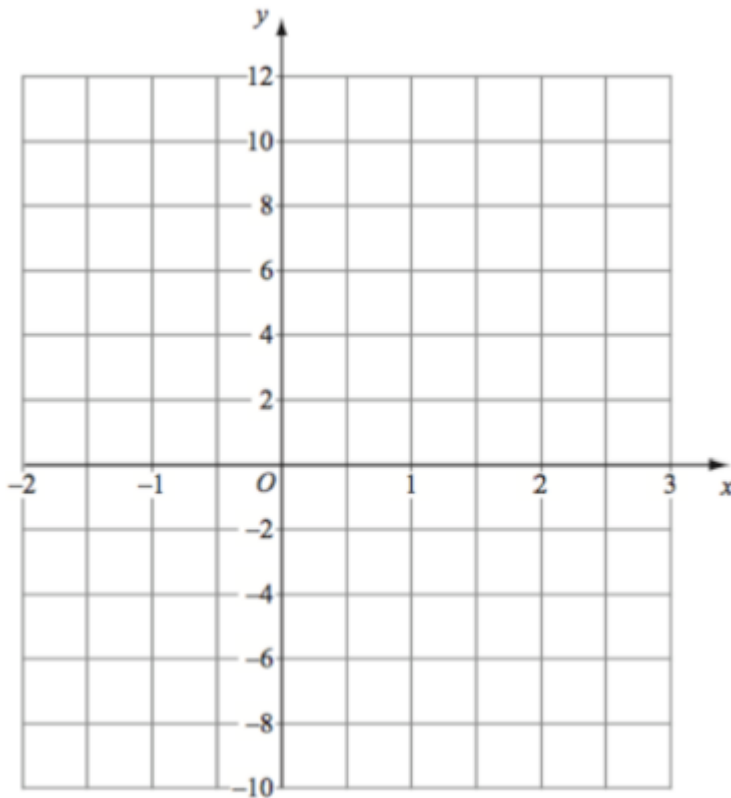
The gradient of AB is  $\frac{5}{2}$ . Work out the value of  $a$ .

Q4) The line passing through (4, a) and (8, 1) has gradient  $\frac{3}{4}$ . Work out the value of  $a$ .

Q5) Draw the graph of  $y = 4x + 2$  (show all the working)

x	-2	-1	0	1	2
y					

Working Column:



Q6) Find the equation (in the form of  $y = mx + c$ ) of the line which Passes through  $(0, 8)$  at a gradient of 7.

Q7) Find the gradient and y-intercept of the line given by  $y = 8x - 9$