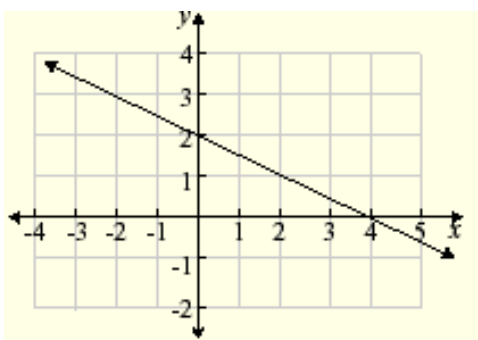




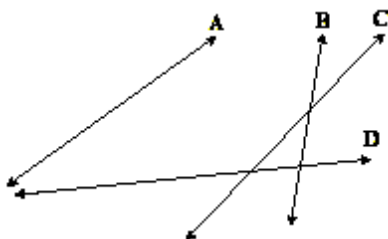
Year 10 Mathematics Linear Relationships Practice Test 2

1 Does the point (3, 1) lie on the line shown below?

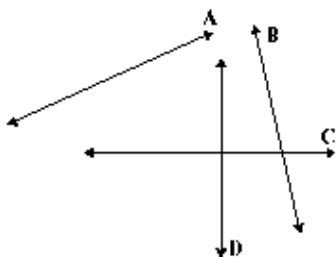


2 What is the gradient of the line $y = -2x + 4$

3 Which of the four lines below has the smallest gradient



4 Which of the four lines below has a negative gradient?

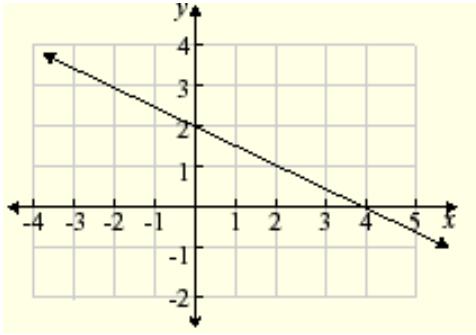


5 The gradient of a line is $\frac{2}{3}$. What is the gradient of any line parallel to it?

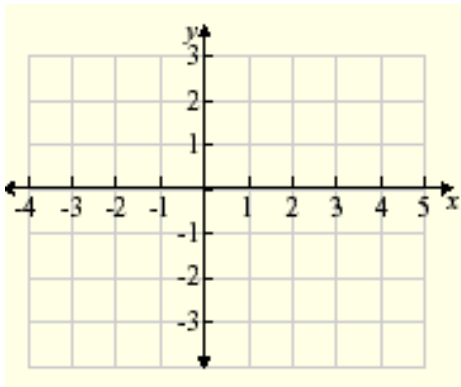
6 Write $y = -3x - 5$ in general form

7 Write the equation of the line with gradient -2 and y intercept 5

8 What is the gradient of this line



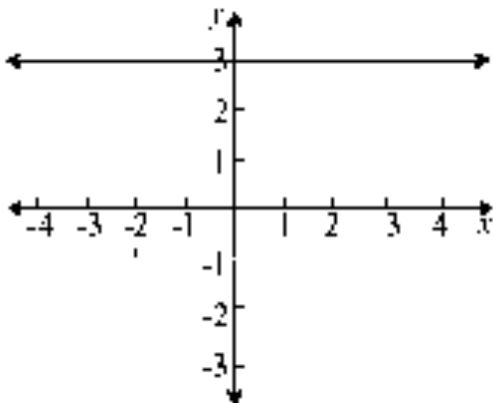
9 Plot the point $(-2, 2)$ on the number plane (1 mark)



10 A line was drawn through the following points
 $(0, 0)$ $(1, 2)$ $(2, 4)$ $(3, 6)$ $(4, 8)$

Its equation would be $y =$

11 What is the equation of this line? (1 mark)



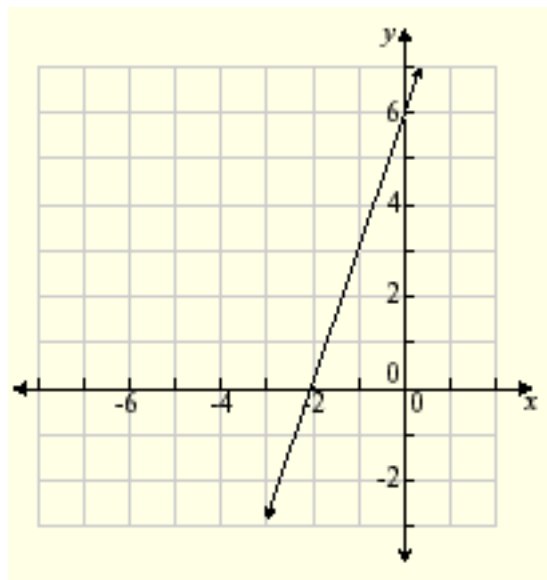
12 For the points A(2, 4) and B(8, 12)

Find

- a) The midpoint of AB
- b) The distance AB (
- c) The gradient of the line connecting AB

13 For the graph below

- a) State the y intercept
- b) Calculate the gradient
- c) Write the equation of the line in the form $y = mx + b$ (1 mark)



14 Write the equation of the line with gradient $m = 2$ and y intercept $b = -5$