

Linear Graphs Problems

1. Which of these points lie on the line $y = \frac{1}{3}x$?

(3,1) (3,0) (0,0) (-3,-1)(1,3)(2,6)(0,9)(0,3)

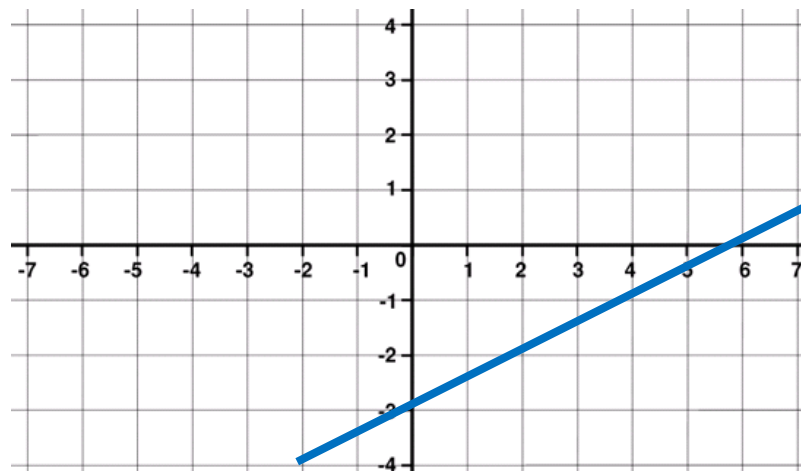
2. A line goes through the points (-1,-4) (0,0) and (2,8). Which of these is the equation of the line?

$Y = x + 6$

$y = x - 3$

$y = 4x$

3. Determine the equation of the line drawn below:



4. Determine the equation of the line that passes through the points :

a. (0,1) and (5,16)

b. (0,100) and (50,0)

5. A line has a gradient of -2 and passes through the point with coordinates (5,7). What is the equation of the line?

6. A triangle has corners at the points (1,2), (-2,3) and (0,-1). Determine the equations of the lines that form the sides of the triangle. Is the triangle right angled?

7. Which of the following graphs are parallel to $y = 2x + 5$?

a) $y = 2x + 2$

b) $y = 5x + 2$

c) $2y = 4x + 2$