

Co-ordinate Geometry

Difficulty: Easy

Question Paper 3

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Co-ordinate Geometry
Sub-Topic	Co-ordinate Geometry
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 3

Time allowed: 40 minutes

Score: /31

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

The points $(2, 5)$, $(3, 3)$ and $(k, 1)$ all lie in a straight line.

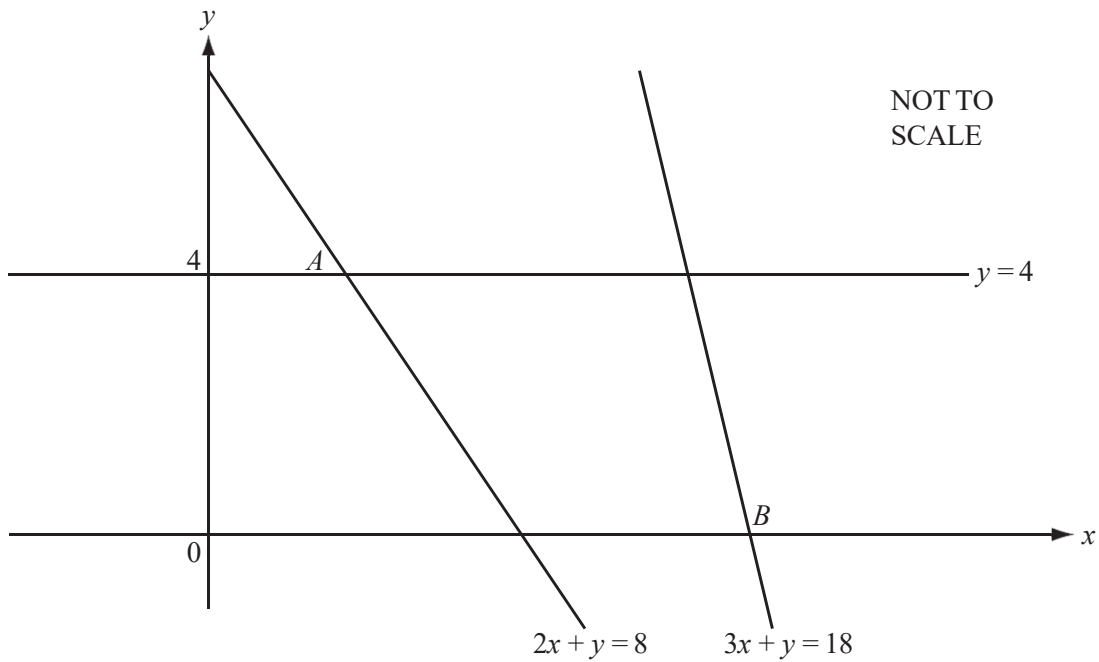
(a) Find the value of k .

[1]

(b) Find the equation of the line.

[3]

Question 2



- (a) The line $y = 4$ meets the line $2x + y = 8$ at the point A .
Find the co-ordinates of A .

[1]

- (b) The line $3x + y = 18$ meets the x axis at the point B .
Find the co-ordinates of B .

[1]

- (c) (i) Find the co-ordinates of the mid-point M of the line joining A to B .

[1]

- (ii) Find the equation of the line through M parallel to $3x + y = 18$.

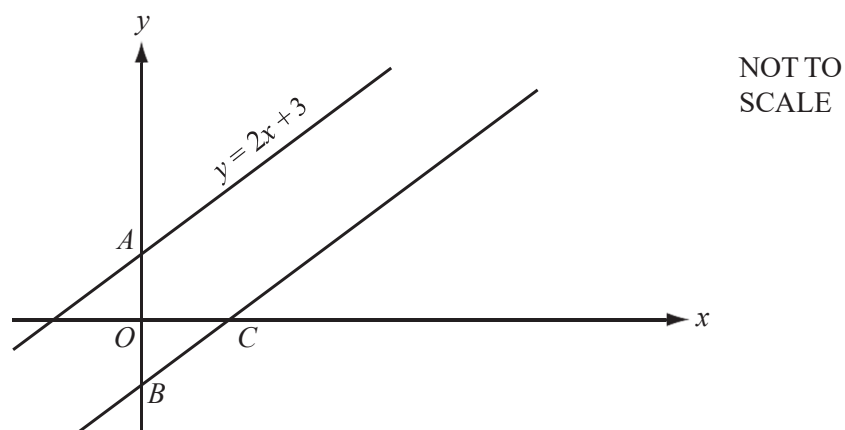
[2]

Question 3

Find the length of the line joining the points $A(-4, 8)$ and $B(-1, 4)$.

[2]

Question 4

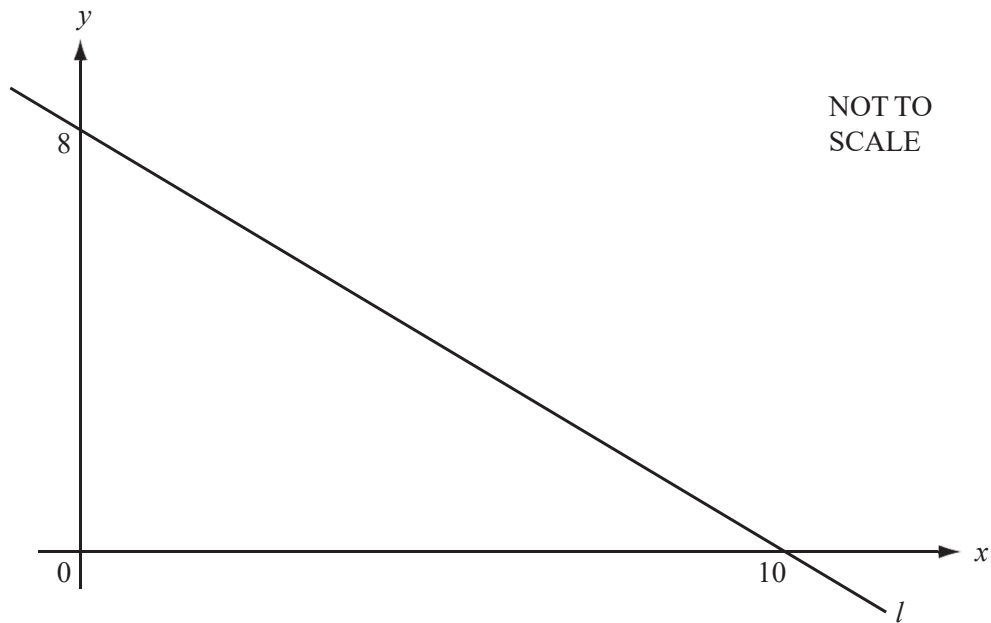


The distance AB is 7 units.

(a) Write down the equation of the line through B which is parallel to $y = 2x + 3$. [2]

(b) Find the co-ordinates of the point C where this line crosses the x axis. [1]

Question 5



The line l passes through the points $(10, 0)$ and $(0, 8)$ as shown in the diagram.

(a) Find the gradient of the line as a fraction in its simplest form. [1]

(b) **Write down** the equation of the line parallel to l which passes through the origin. [1]

(c) Find the equation of the line parallel to l which passes through the point $(3, 1)$. [2]

Question 6

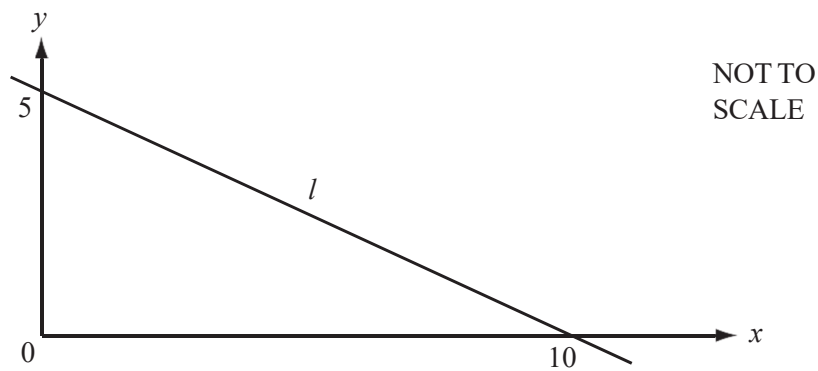
The equation of a straight line can be written in the form $3x + 2y - 8 = 0$.

(a) Rearrange this equation to make y the subject. [2]

(b) Write down the gradient of the line. [1]

(c) Write down the co-ordinates of the point where the line crosses the y axis. [1]

Question 7



(a) Calculate the gradient of the line l .

[2]

(b) Write down the equation of the line l .

[2]

Question 8

The straight line graph of $y = 3x - 6$ cuts the x -axis at A and the y -axis at B .

(a) Find the coordinates of A and the coordinates of B . [2]

(b) Calculate the length of AB . [2]

(c) M is the mid-point of AB .
Find the coordinates of M . [1]