

Co-ordinate Geometry

Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Co-ordinate Geometry
Sub-Topic	Co-ordinate Geometry
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: 32 minutes

Score: /25

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%

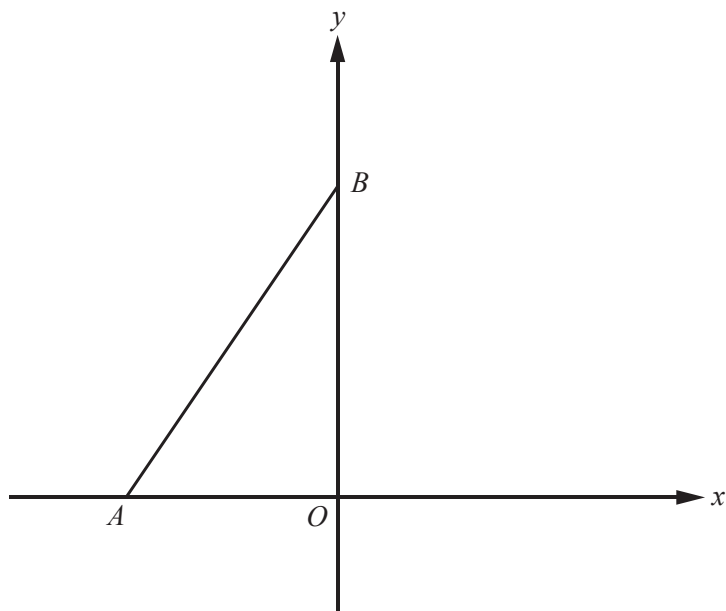
Question 1

A line has gradient 5.
 M and N are two points on this line.
 M is the point $(x, 8)$ and N is the point $(k, 23)$.

Find an expression for x in terms of k .

[3]

Question 2



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A is the point $(-2, 0)$ and B is the point $(0, 4)$.

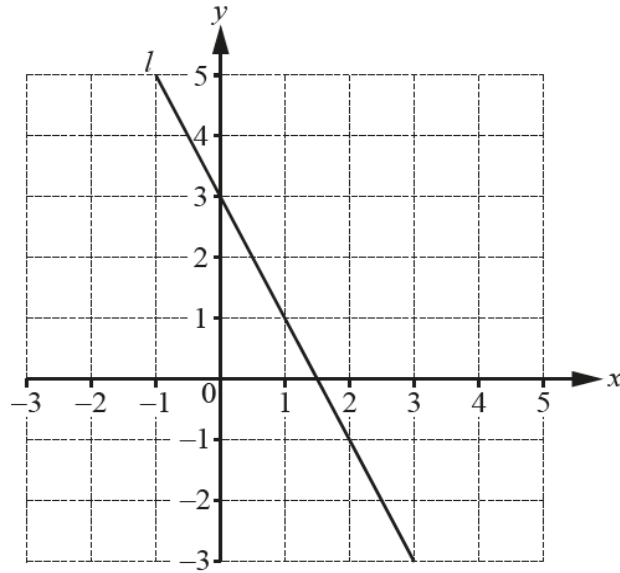
(a) Find the equation of the straight line joining A and B .

[3]

(b) Find the equation of the perpendicular bisector of AB .

[4]

Question 3



- (a) Find the equation of the line l .
Give your answer in the form $y = mx + c$.

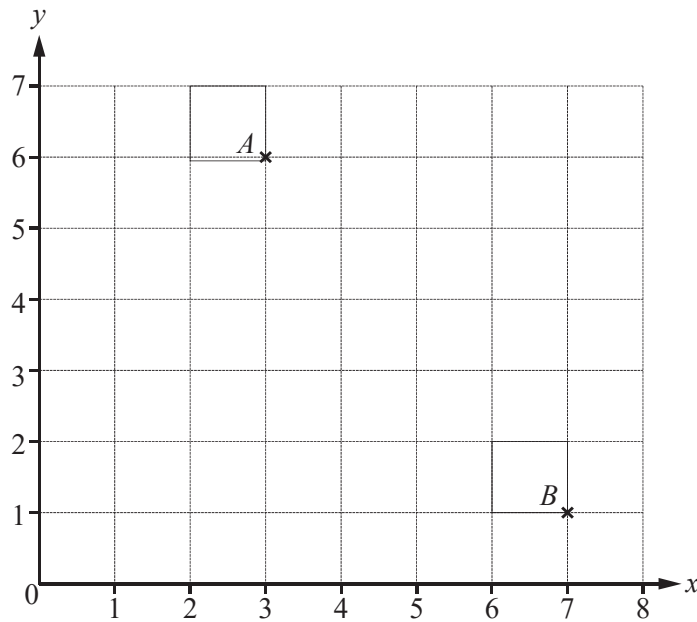
[3]

- (b) A line perpendicular to the line l passes through the point $(3, -1)$.

Find the equation of this line.

[3]

Question 4



Point A has co-ordinates $(3, 6)$.

(a) Write down the co-ordinates of point B .

[1]

(b) Find the gradient of the line AB .

[2]

(c) Find the equation of the line that

- is perpendicular to the line AB
- and
- passes through the point $(0, 2)$.

[3]

Question 5

A is the point $(8, 3)$ and B is the point $(12, 1)$.

Find the equation of the line, perpendicular to the line AB , which passes through the point $(0, 0)$.

[3]