

Surname	
Other Names	
Candidate's Signature	

## GCSE 9 - 1 Questions

### Solve Simultaneous Equations Graphically

**Calculator Not Allowed**

#### INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

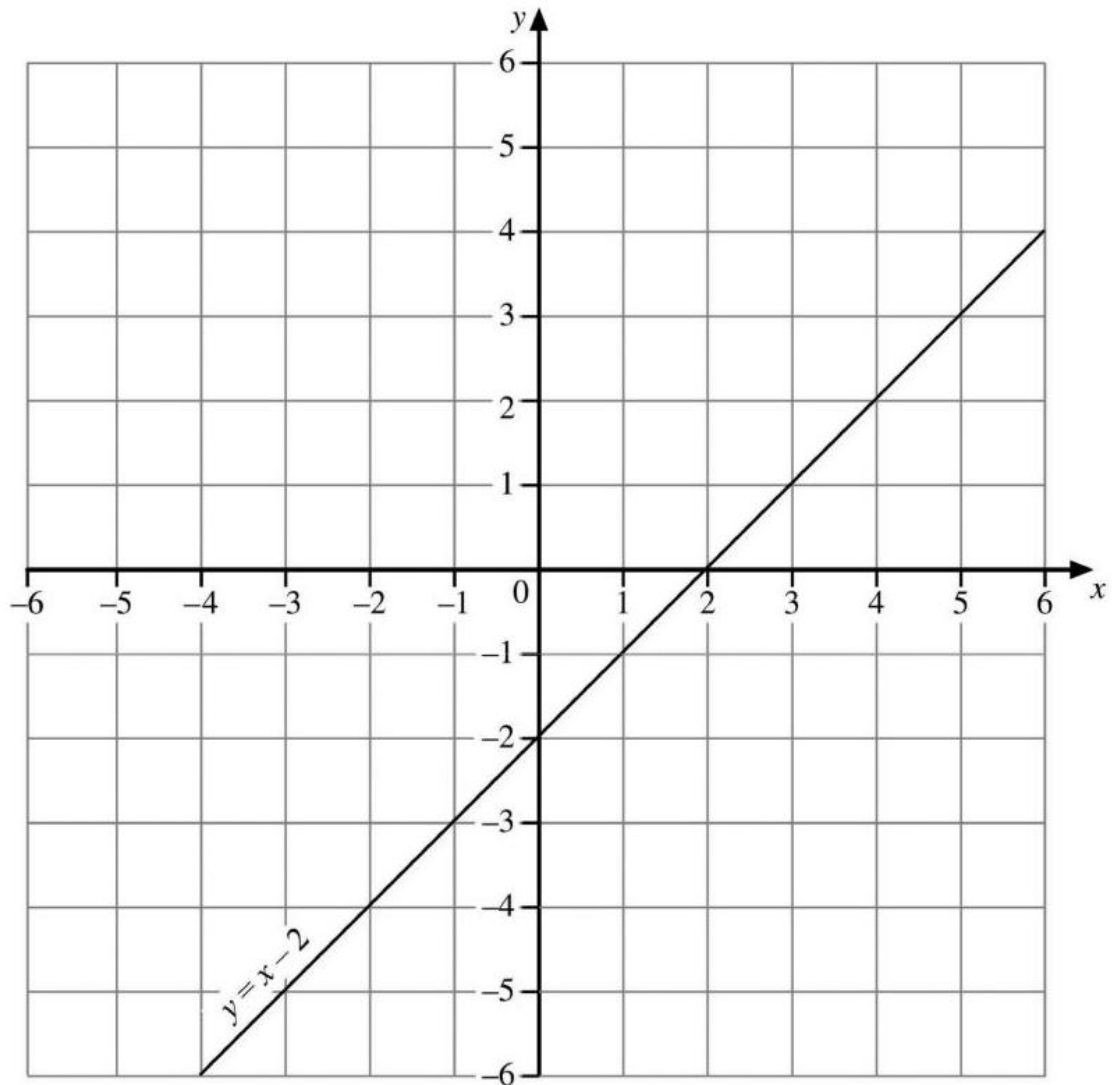
Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.

**Total Marks :**

1)



The line  $y = x - 2$  has been drawn on the grid.

(a) Draw the line  $y = \frac{1}{2}x + 1$  on the same grid. [3]

(b) Write down the coordinates of the point of intersection of the two lines.

Answer (\_\_\_\_, \_\_\_\_) [1]

2) Use the grid below to draw graphs to represent each of the following equations.

(i)  $y = \frac{1}{2}x + 6$

(ii)  $x + y = 8$

.....

.....

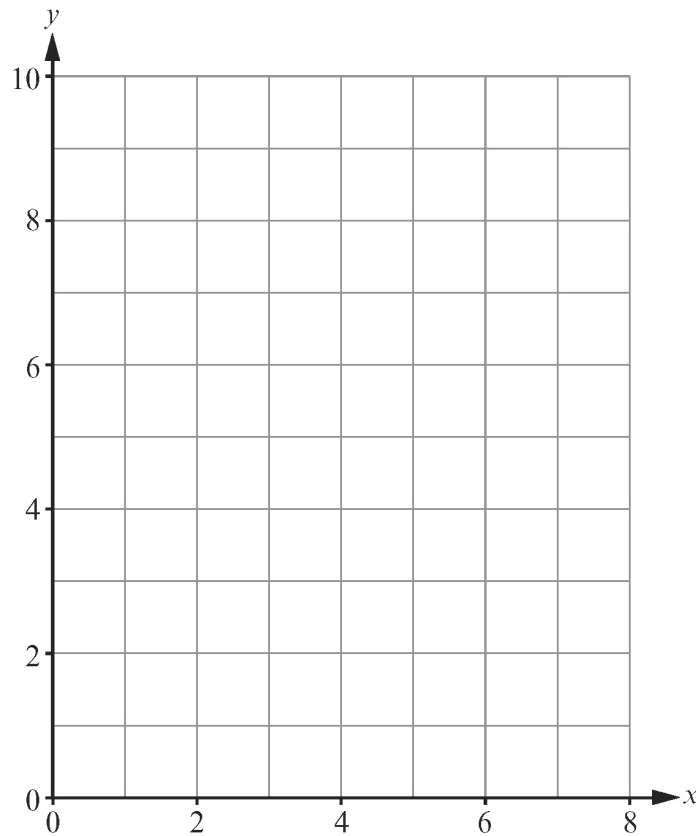
.....

.....

.....

.....

Label your lines (i) and (ii) as appropriate.

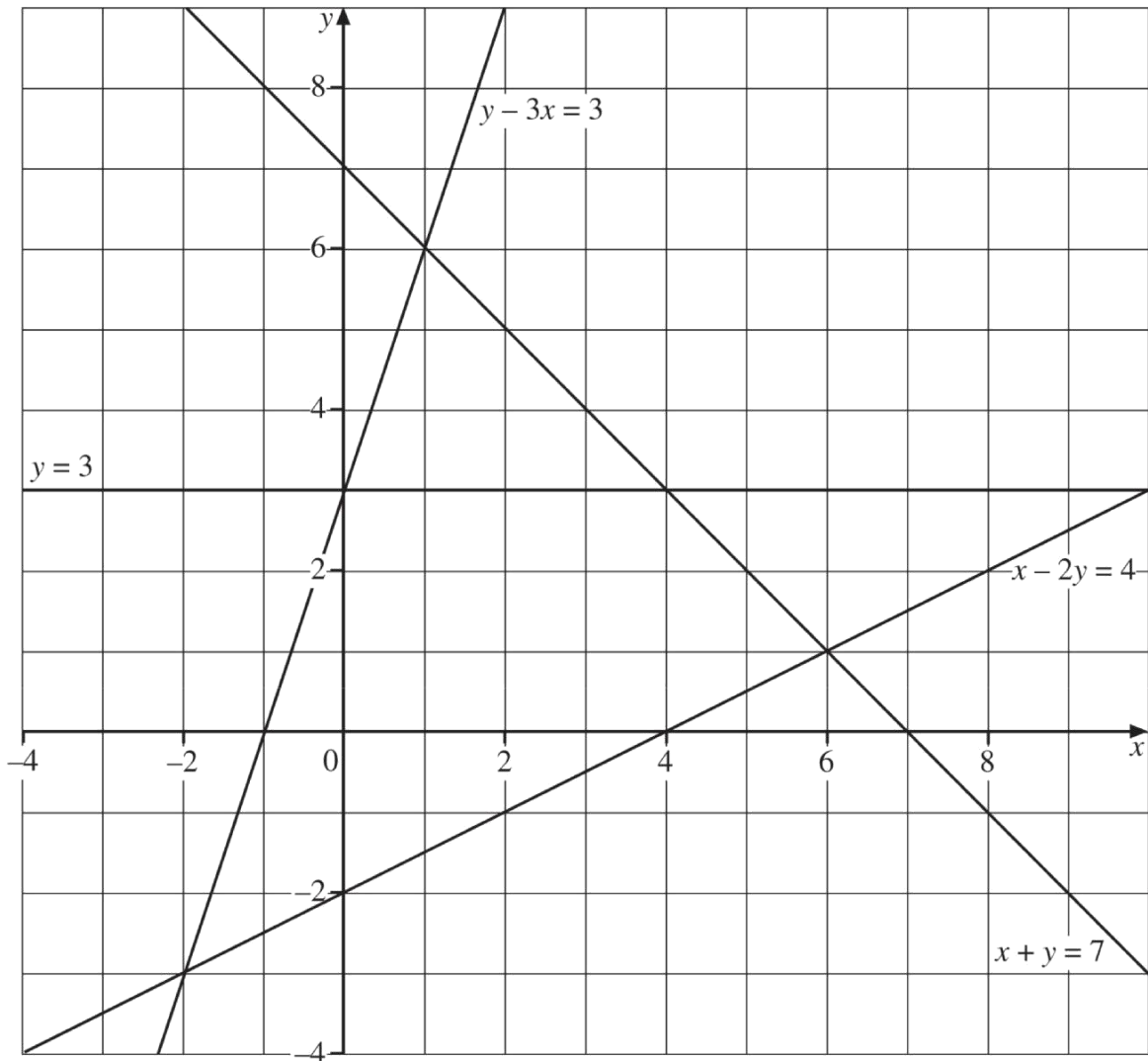


[4]

Write down the co-ordinates of where the two lines cross.

(            ,            ) [2]

3)



Use the graph to write down the solution of the simultaneous equations

$$y - 3x = 3$$

$$x - 2y = 4$$

Answer  $x = \underline{\hspace{2cm}}$ ,  $y = \underline{\hspace{2cm}}$  [1]