Name:					
-					

Graphical Inequalities

Date:														
Time:														
Total marks available:	21													
Total marks achieved:														

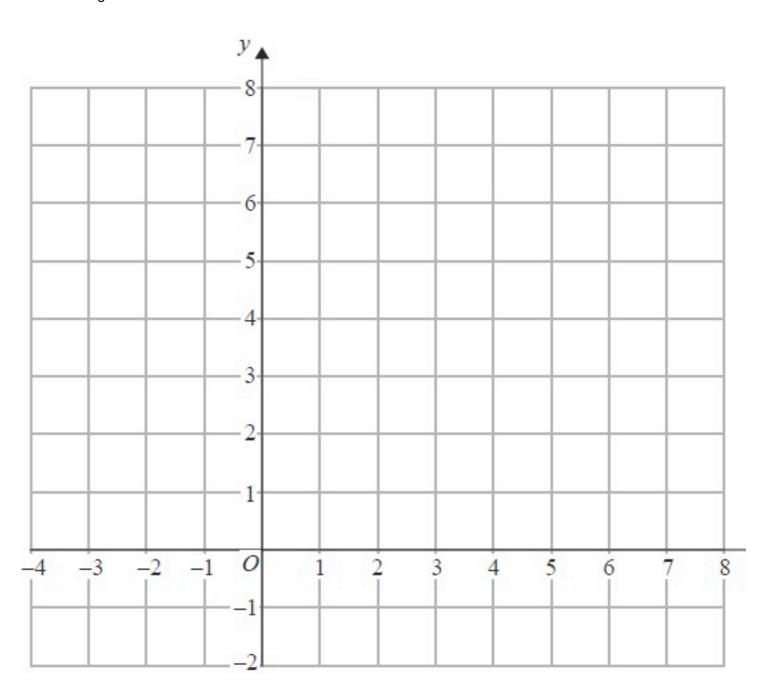
Questions

Q1.

On the grid below, show by shading, the region defined by the inequalities

$$x > -1$$

Mark this region with the letter R.

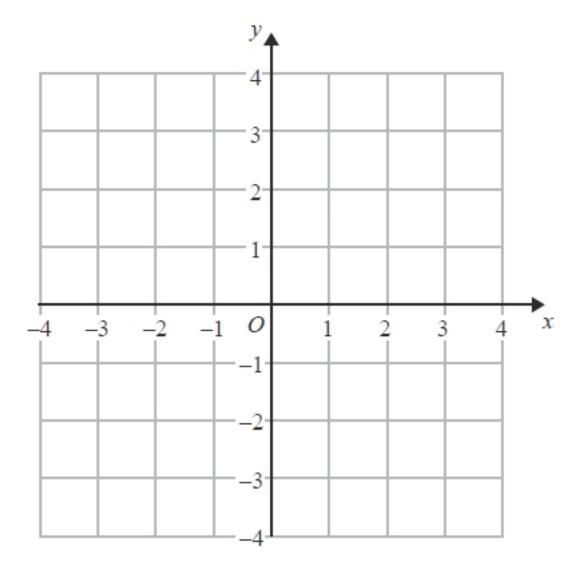


(Total for Question is 4 marks)

(a) Solve the inequality 5e + 3 > e + 12

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(b) On the grid, shade the region defined by the inequality x + y > 1



(2)

(Total for Question is 4 marks)

(a) Given that x and y are integers such that

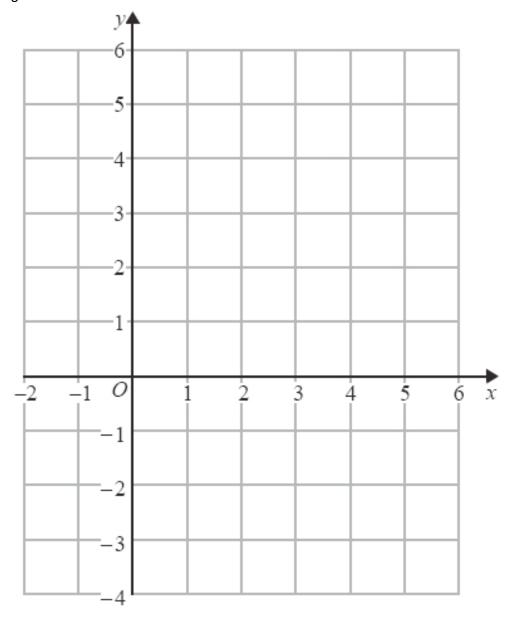
and
$$x + y = 13$$

find all the possible values of x.

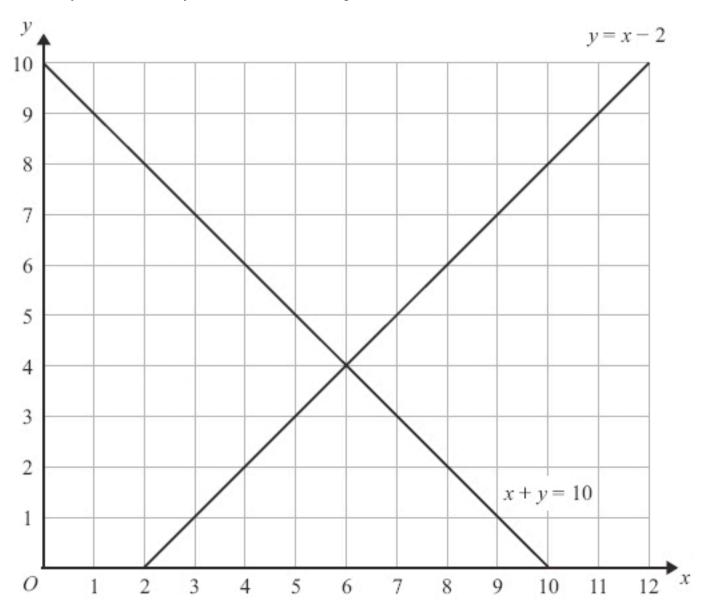
(2)

(b) On the grid below show, by shading, the region defined by the inequalities $\leqslant 4-x$ $y\leqslant 3x-1$

 $y \geqslant -1$ $y \leqslant 4$ - Mark this region with the letter R.



The lines y = x - 2 and x + y = 10 are drawn on the grid.



On the grid, mark with a cross (x) each of the points with integer coordinates that are in the region defined by

$$y > x - 2$$

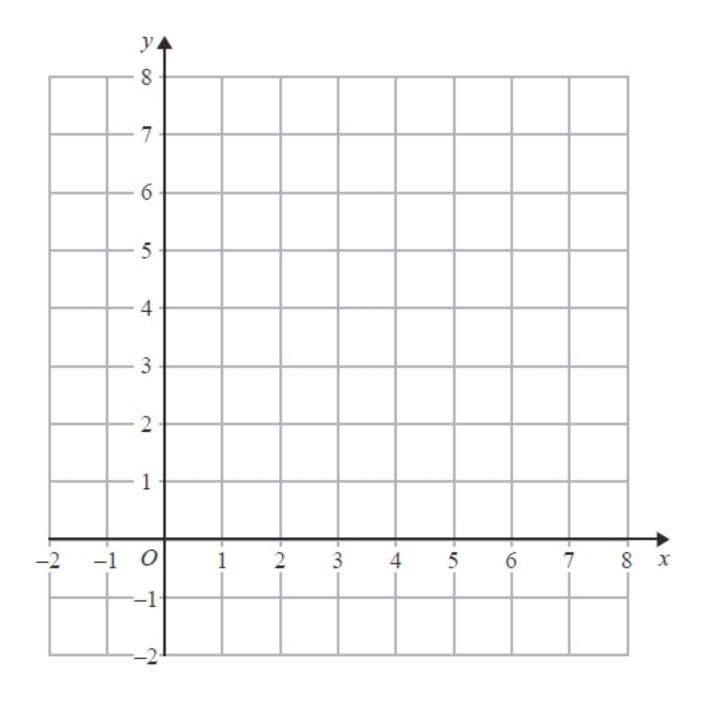
 $x + y < 10$
 $x > 3$

(Total for Question is 3 marks)

On the grid show, by shading, the region that satisfies all three of the inequalities

$$x + y < 7$$

Label the region **R**.



(Total for question = 4 marks)