

SCORE

# Algebra

With Classified  
answer book

8

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## 12-Lines Parallel to X-axis and Y- axis

1. Here are the equations of 6 lines.

a)  $x = 2$

b)  $x = -2$

c)  $x = -2$

d)  $x = 3$

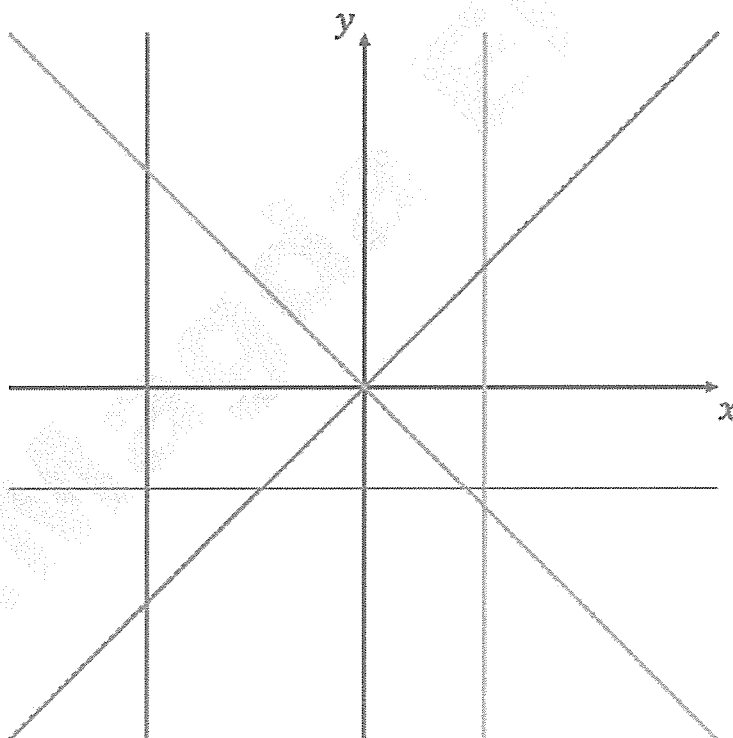
e)  $x = 5$

f)  $x = -5$

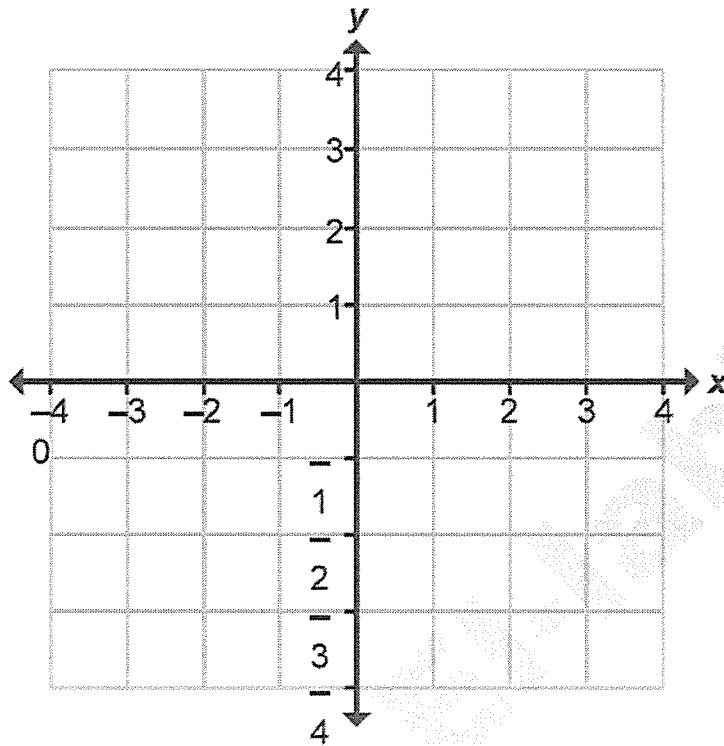
Five of the lines have been drawn on the grid.

Label each line and explain how you know.

Sketch the graph of the sixth line.



2. Here is a blank coordinate grid



a. Draw the line  $x = 2$  on the grid.

b. Write the coordinates of three points that lie on your line.

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c) Write the coordinates of a point on the line  $x = 2$  that you cannot see on the grid.

(  ,  )

d) Draw the line  $y = 1$  on the same grid.

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e) Write the coordinates of the point where the lines  $x = 2$  and  $y = 1$  intersect.

(  ,  )

3. The point  $(-5, 9)$  lies on which of these lines? Tick your answers.

$y = -5$       
  $x = -5$       
  $x = 9$       
  $y = 9$

4.  $x = 7$                        $y = 7x + 2$                        $y = 7x$                        $y = 7$

a) Which of the following lines is parallel to the  $x$ -axis?  
Circle your answer.

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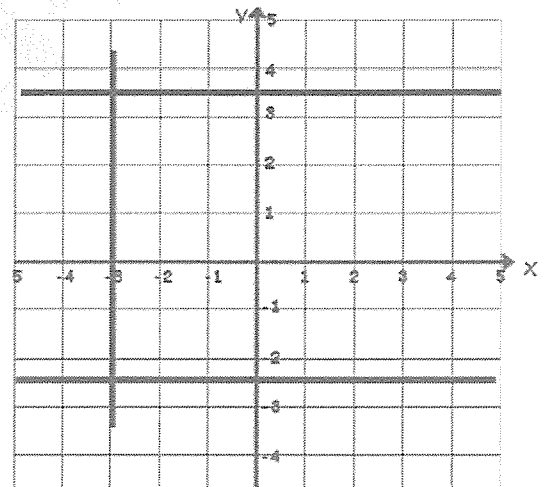
b) Write the equation of a line that is parallel to the  $x$ -axis.

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5. (a) Write down the equations of the lines shown.

(b) Label the lines with their equations.  
Draw the line  $x = 4$  onto the grid.

(c) Write down the coordinates of the points where the lines intersect.



6. Which of the following points will lie on the line  $y = x$ ?

- |          |               |                |         |
|----------|---------------|----------------|---------|
| (19, 19) | (-10, -9 - 1) | (8, 7)         | (7, 8)  |
| (x, x)   | (0.3, 0.3)    | (x × 2, x + x) | (6, -6) |

7. The graph shows square ABCD.

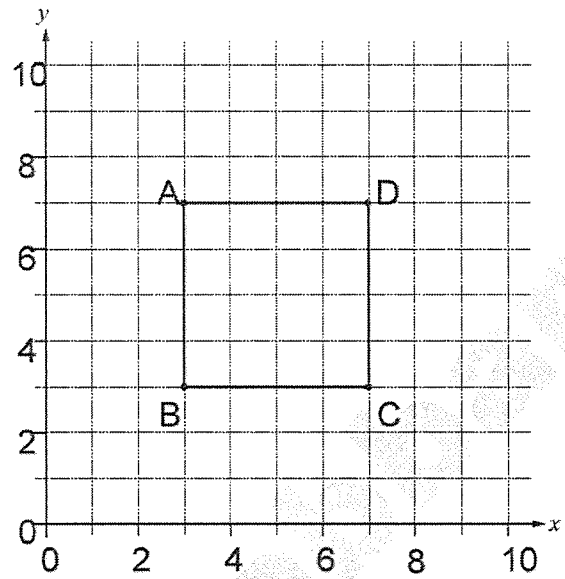
The equation of the straight line through C and D is  $x = 7$

(a) What is the equation of the straight line through B and C?

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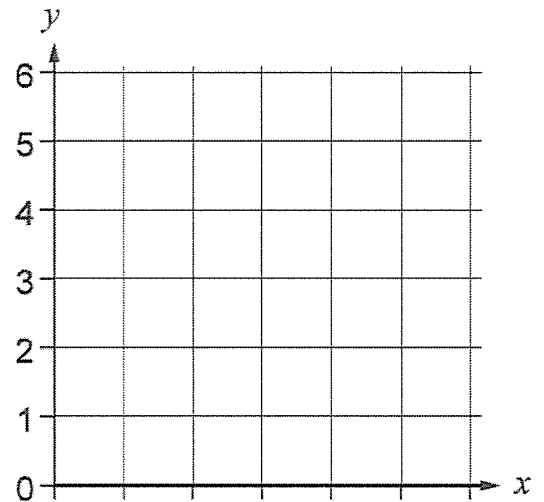
(b) What is the equation of the straight line through B and D?

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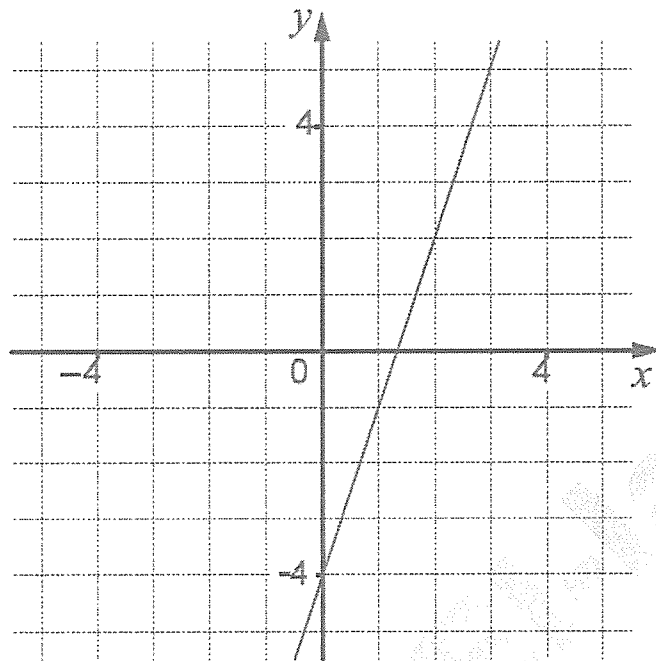


8. (a) On the graph below, show with a **straight line** all the points that have an **x-coordinate of 4**

(b) On the graph below, draw the line  $y = 1$



9. The graph shows the straight line with equation  $y = 3x - 4$



- (a) A point on the line  $y = 3x - 4$  has an **x-coordinate of 50**  
What is the **y-coordinate** of this point?

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- (b) A point on the line  $y = 3x - 4$  has a **y-coordinate of 50**  
What is the **x-coordinate** of this point?

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