



5 How much does it cost to make the cakes? \_\_\_\_\_

6 How many cakes must be sold to 'break even'? \_\_\_\_\_

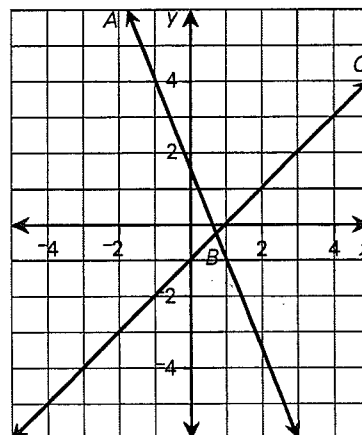
Find the gradient ( $m$ ), the  $y$ -intercept ( $c$ ) and the equation of the lines.

Line  $\overleftrightarrow{AB}$

7  $m =$  \_\_\_\_\_      8  $c =$  \_\_\_\_\_      9  $y =$  \_\_\_\_\_

Line  $\overleftrightarrow{BC}$

10  $m =$  \_\_\_\_\_      11  $c =$  \_\_\_\_\_      12  $y =$  \_\_\_\_\_

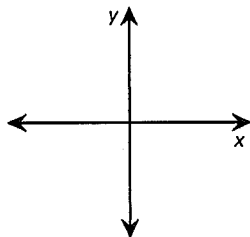


For the line  $3y - 2x = 12$ , do the following.

13 Find the  $y$ -intercept. \_\_\_\_\_

14 Find the  $x$ -intercept. \_\_\_\_\_

15 Sketch the line.

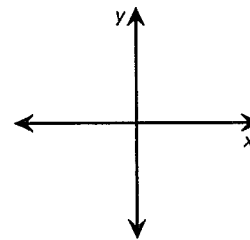


For the line  $y = 2x - 5$ , do the following.

16 Find the gradient. \_\_\_\_\_

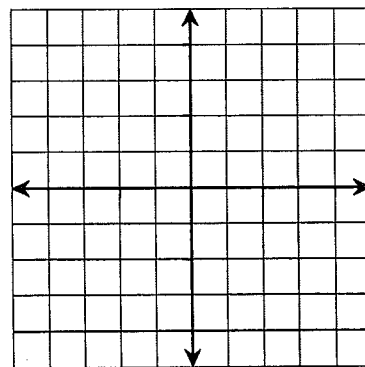
17 Find the  $y$ -intercept. \_\_\_\_\_

18 Sketch the line.



19 Draw a sketch diagram showing the position of the points  $A(-2, -1)$  and  $B(2, 3)$ .

20 Find the gradient of the line joining the points  $A$  and  $B$ . \_\_\_\_\_



P  
u  
z  
z  
l  
e  
r

There is only one solution to the equation  $x^y = y^x$ .

Can you find the numbers and explain why there is only one solution?

Vocabulary

Write the mathematical meaning of:

Gradient \_\_\_\_\_

Intercept \_\_\_\_\_