**Q1.**

Circle the equation of a line that is parallel to $y = 5x - 2$

$y = 2x - 5$ $y = 5x + 2$ $y = 3x - 2$ $y = -\frac{1}{5}x - 2$

**(Total 1 mark)**

**Q2.**

The equations of five straight lines are shown below.
The line $y = 5x + 3$ is parallel to two of the lines.

Circle the equations of these **two** lines.

$3y = 15x - 3$ $3y = 5x - 3$ $3y = 5x + 3$ $y = 5x - 3$ $y = -5x + 3$

**(Total 2 marks)**

**Q3.**

A straight line has gradient −2 and passes through the point (−3, 10).

Work out the equation of the line.

Give your answer in the form $y = mx + c$

.....

.....

.....

.....

Answer .....

**(Total 2 marks)**

**Q4.**

The line $y = mx + c$ passes through the point (4, 3).
It is parallel to the line $y = 5x + 6$

Work out the values of $m$ and $c$.

.....

.....

.....

.....

.....

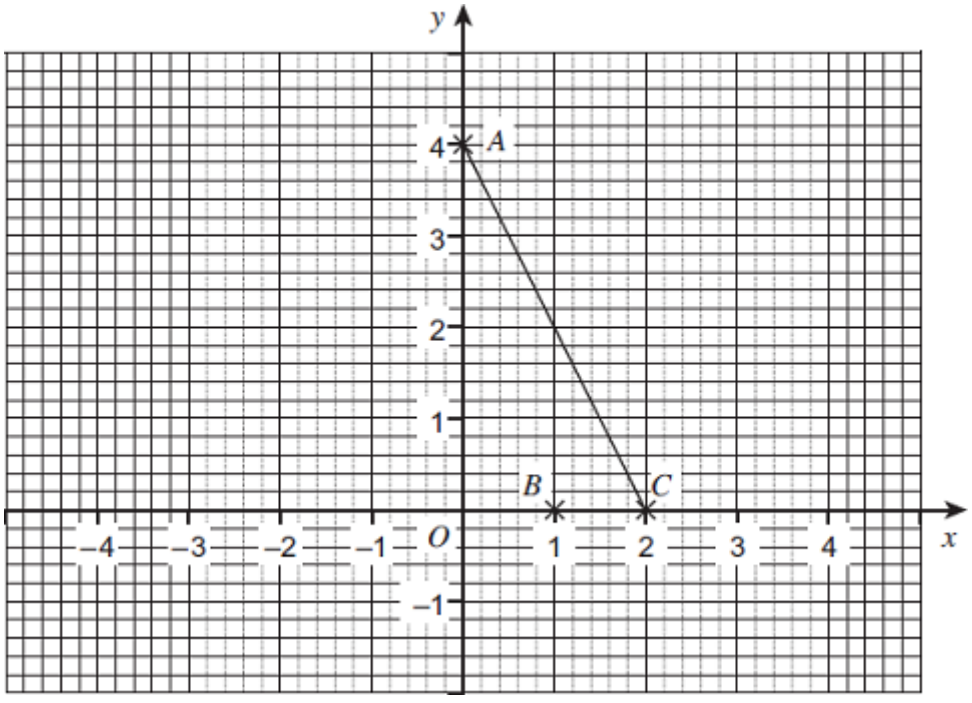
.....

.....

$m$ = ....., $c$ = .....

**(Total 3 marks)**

**Q5.** Show clearly that the equation of the line through $B$ parallel to $AC$ is $2x + y = 2$



.....

.....

.....

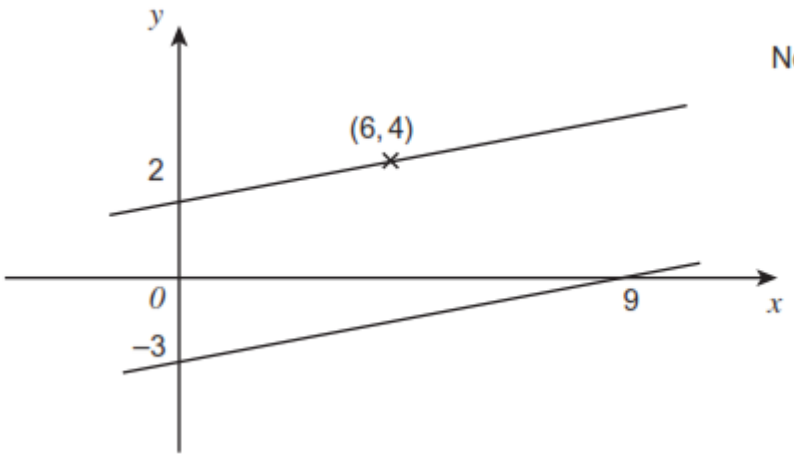
.....

.....

.....

**(Total 3 marks)**

**Q6.** Two straight lines are shown.




Prove that the lines never meet.

.....

.....

.....

.....

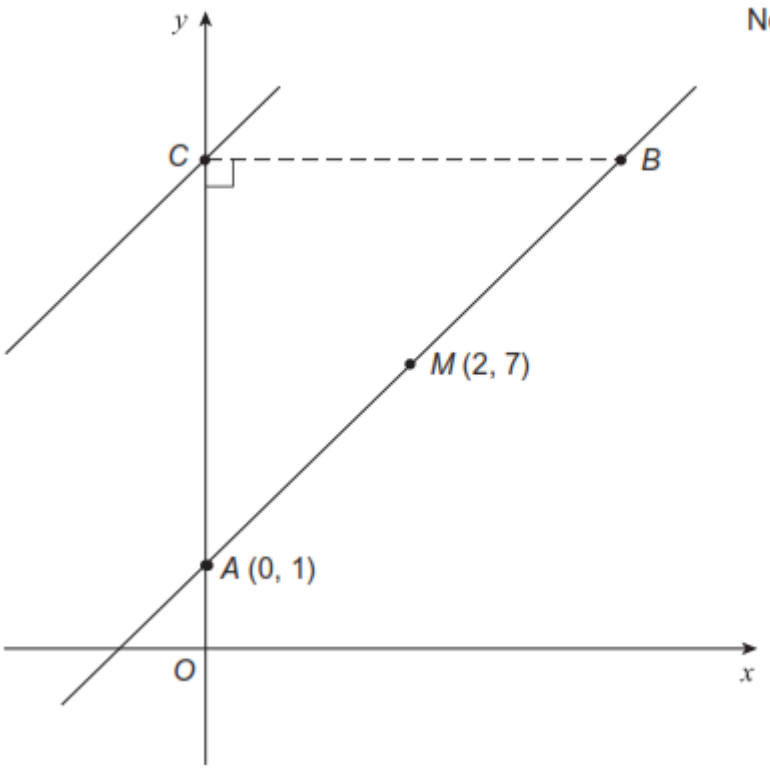
.....

.....

.....

**(Total 3 marks)**

**Q7.** On the grid, *A* is the point (0, 1).
The midpoint, *M*, of *AB* is (2, 7).
The gradient of *AB* is 3.




Work out the equation of the line through *C* that is parallel to *AB*.

.....

.....

.....

.....

Answer .....

**(Total 3 marks)**