



Name: _____ **Date:** _____ **Score:** _____ / 34

1 Here are the equations of four straight lines.

A: $y = 2x - 5$

B: $y = x + 1$

C: $y = 3 - 2x$

D: $2y = x + 4$

Write down the letter of the line that is parallel to $y = 2x + 1$

(1 mark)

Answer _____

2 Show that the straight lines with equations $y = 3x + 2$ and $6x - 2y = 5$ are parallel.

(2 marks)

Answer _____

3 Sam says that the straight lines with equations $y = 5x - 1$ and $5y = x + 10$ are parallel.

Is Sam correct? You must explain your answer.

(2 marks)

Answer _____

4 The straight line L has equation $y = 4x + 1$

Find the equation of the straight line that is parallel to L and passes through the point (2, 3).

(2 marks)

Answer _____

5 A straight line has equation $y = -2x + 5$

Find the equation of the straight line that is parallel to this line and passes through the point (3, -2).

(3 marks)

Answer _____

- 6 The line with equation $y = 3x + 5$ is parallel to the line with equation $y = (2k - 1)x + 2$

Work out the value of k .

(2 marks)

Answer _____

- 7 The straight line L has equation $y = 5x - 3$

a. Write down the gradient of L.

b. Find the equation of the straight line that is parallel to L and passes through the point (2, 11).

(4 marks)

Answer _____

- 8 The straight line L has equation $3x + 4y = 8$

Find the equation of the straight line that is parallel to L and passes through the point (8, 1).

(4 marks)

Answer _____

- 9 The line with equation $4x + 2y = 7$ is parallel to the line with equation $y = kx - 1$

Work out the value of k .

(3 marks)

Answer _____

- 10 A straight line has equation $6x - 3y = 5$

Find the equation of the straight line that is parallel to this line and passes through the point (1, 4).

(3 marks)

Answer _____

- 11** Line A passes through the points (0, 5) and (4, 13).
Line B is parallel to line A and passes through the point (3, -1).
a. Find the equation of line B.
b. Show that the point (5, 3) lies on line B.

(4 marks)

Answer _____

- 12** A is the point (1, 2), B is (5, 4), C is (6, 7) and D is (2, 5).
Show that ABCD has two pairs of parallel sides.

(4 marks)

Answer _____

End of questions | Total 34 marks