

- 1 Write down the equation of a line parallel to $y = 3x + 2$

(1 mark)

- 2 Write down the equation of the line parallel to $y = \frac{1}{2}x + 5$ which passes through (0,2)

(2 marks)

- 3 Write down the equation of the line parallel to $y = -x + 1$ which passes through (0,-4)

(2 marks)

- 4 Write down the equation of a line perpendicular to $y = 3x + 3$

(1 mark)

- 5 Write down the equation of the line perpendicular to $y = \frac{1}{2}x - 4$ which passes through (0, 7)

(2 marks)

- 6 Write down the equation of the line perpendicular to $y = -\frac{3}{2}x - 1$ which passes through (0,-8)

(2 marks)

- 7 Find the equation of the line parallel to $2y - 3x + 2 = 0$ which passes through (0, 4)

(2 marks)

- 8 Find the equation of the line parallel to $2x + 5y = 10$ which passes through (0,-3)

(2 marks)

- 9 Find the equation of the line perpendicular to $5y = 2x - 4$ which passes through (0,7)

(2 marks)

- 10 Here are the equations of five straight lines.

Line A $y = 2x - 3$

Line B $2y = x + 3$

Line C $4y = 3x - 2$

Line D $2y = 4x - 1$

Line E $3y = 2x - 2$

Two of these lines are parallel.

Write down the two parallel lines.

(1 mark)

- 11** Here are the equations of five straight lines.

Line A $y + 3x = 4$
Line B $2y = x + 1$
Line C $y + 2x = 3$
Line D $y = 4x - 2$
Line E $2y = 2x - 1$

Two of these lines are perpendicular.

Write down the two perpendicular lines.

(1 mark)

- 12** Line A passes through the points (2, 1) and (5, 10)
Find the equation of the line parallel to A that passes through (2, 5)

(3 marks)

- 13** Line A passes through the points (1, 5) and (5, 7)
Find the equation of the line perpendicular to A that passes through (-1, 7)

(3 marks)

- 14** Line A passes through the points (-2, 1) and (4, 10)
Find the equation of the line parallel to A that passes through (2, 7)

(3 marks)

- 15** Line A passes through the points (2, -5) and (10, -1)
Find the equation of the line perpendicular to A that passes through (4, 3)

(2 marks)

- 16** Line A passes through the points (2, 1) and (5, 10)
Line B passes through the points (3, 10) and (1, 4)
Show that Line A and Line B are parallel.

(4 marks)

- 17** Line A passes through the points (1, 5) and (5, 7)
Line B passes through the points (-1, 7) and (2, 1)
Show that Line A and Line B are perpendicular.

(4 marks)

- 18** Line A passes through the points (3, 6) and (5, -2)
Line B passes through the points (2, 5) and (8, k)

Line A and Line B are parallel.

Find the value of k .

(4 marks)

- 19** Line A passes through the points (-3, -1) and (-1, 9)
Line B passes through the points (-2, 1) and (k , 4)

Line A and Line B are perpendicular.

Find the value of k .

(4 marks)