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)

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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)

(2 marks)

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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)

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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)

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16 Line A passes through the points (2, 1) and (5, 10)

Line B passes through the points (4, 7) and (2, 1)

Show that Line A and Line B are parallel.

(4 marks)

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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)