

Straight line graphs 2

1)

- (a)** Find the co-ordinates of the midpoint of the line joining $A(-8, 3)$ and $B(-2, -3)$.

Answer(a) (,) [2]

- (b)** The line $y = 4x + c$ passes through $(2, 6)$.

Find the value of c .

Answer(b) $c =$ [1]

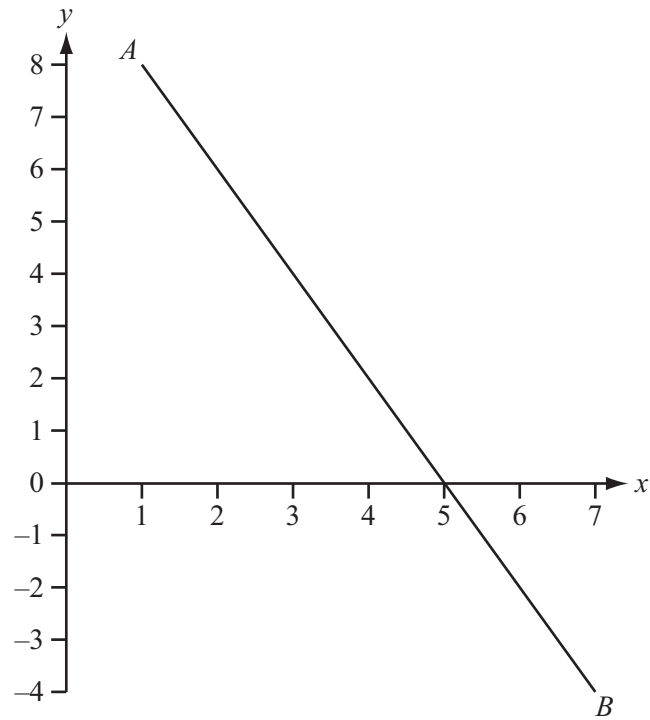
- (c)** The lines $5x = 4y + 10$ and $2y = kx - 4$ are parallel.

Find the value of k .

Answer(c) $k =$ [2]

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2)



Write down the co-ordinates of the midpoint of the line segment joining $A(1, 8)$ to $B(7, -4)$.

Answer(b) (,) [1]

Find the equation of the line AB .

Answer(c)

[3]

Straight line graphs 2

- 3) (a) The line $y = 2x + 7$ meets the y -axis at A .

Write down the co-ordinates of A .

Answer(a) $A = (\quad , \quad)$ [1]

- (b) A line parallel to $y = 2x + 7$ passes through $B(0, 3)$.

(i) Find the equation of this line.

Answer(b)(i) [2]

- (ii) C is the point on the line $y = 2x + 1$ where $x = 2$.

Find the co-ordinates of the midpoint of BC .

Answer(b)(ii) (\quad , \quad) [3]

Straight line graphs 2

- 4) (a) The two lines $y = 2x + 8$ and $y = 2x - 12$ intersect the x -axis at P and Q .
Work out the distance PQ .

Answer(a) PQ = [2]

- (b) Write down the equation of the line with gradient -4 passing through $(0, 5)$.

Answer(b) [2]

- (c) Find the equation of the line parallel to the line in **part (b)** passing through $(5, 4)$.

Answer(c) [3]