

4 The equation of the line L is

$$2x + 3y = 24$$

4 (a) Find the gradient of L

[1 mark]

4 (b) Point A has coordinates $(2, -2)$ and point B has coordinates $(10, p)$, where p is an integer.

The line L is the perpendicular bisector of the line AB

4 (b) (i) Find the value of p

[3 marks]

4 (b) (ii) Find the coordinates of the point of intersection of AB and L

[1 mark]