

ANALYTICAL GEOMETRY:

Toolbox / Formulas - Gradient = $m = \frac{y_2 - y_1}{x_2 - x_1}$

- Equation of a straight line

$$= y = mx + c$$

- Midpoint = $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

- pythagorus

$$= ()^2 = ()^2 + ()^2 \quad \text{- Distance} = d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Parallel lines: same gradient



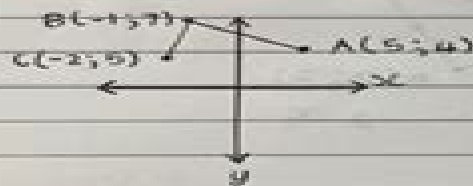
Bisect: Cut into 2 ^{equal} pieces

2 lines bisect when they have the **SAME** mid point

⊥ lines (90°): $m_1 \times m_2 = -1$



CALCULATE THE LENGTH OF AB:



$$\begin{aligned} AB &= \sqrt{(-1-5)^2 + (7-4)^2} \\ &= \sqrt{45} \\ &= 3\sqrt{5} \text{ units} \end{aligned}$$

DETERMINE THE GRADIENT OF AB:

$$\begin{aligned} m_{AB} &= \frac{7-4}{-1-5} & B(-1; 7) \\ &= \frac{3}{-6} & A(5; 4) \\ &= -\frac{1}{2} \end{aligned}$$

FIND THE CO-ORDINATES OF E IF E IS THE MID POINT OF BA:

$$\begin{aligned} M_{BA} &= \left(\frac{-1+5}{2}, \frac{7+4}{2} \right) \\ \therefore E &= \left(2; \frac{11}{2} \right) \end{aligned}$$

$x \quad y$



Analytical Geometry Study Guide

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