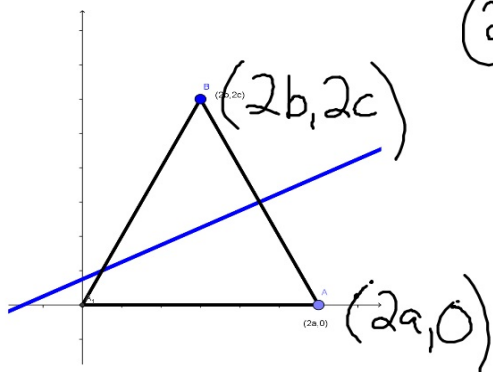


∴ Slope AB

$$m = \frac{2c}{2b-2a}$$

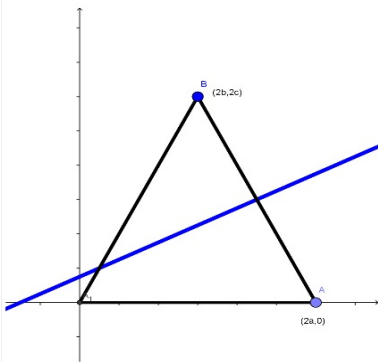
$$m = \frac{c}{b-a}$$

∴ Slope of \perp bisector
is $-\left(\frac{b-a}{c}\right)$ or $\frac{a-b}{c}$



(2) point \Rightarrow midpoint on AB

$$\begin{aligned} \text{mp} &= \left(\frac{2b+2a}{2}, \frac{2c}{2} \right) \\ &= (b+a, c) \end{aligned}$$



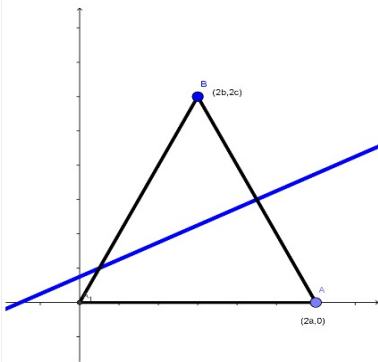
3) eqn

$$m = \frac{y - y_1}{x - x_1}$$

$$\frac{a-b}{c} = \frac{y - c}{x - (b+a)}$$

$$(a-b)(x - (b+a)) = c(y - c)$$

$$x(a-b) - (a-b)(a+b) = cy - c^2$$



3) egn

$$x(a-b) - \underline{(a-b)(a+b)} = cy - c^2$$

$$(a-b)x - cy = \underline{a^2 - b^2} - c^2$$