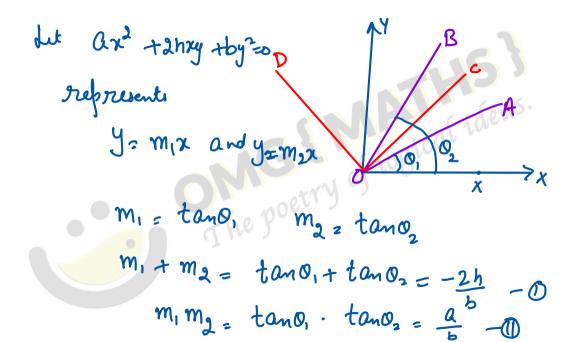
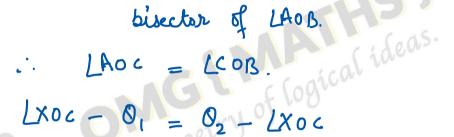
Plane Geometry

Pair of straight lines Bisectors of angles between Pair of Lines through the Origin Find the eluation to the straight lines bisecting the angles between the straight lines given by $ax^2 + 2hxy + by^2 = 0$





$$Lxoc - 0_1 = 0_2 - Lxoc$$

$$Lxoc + Lxoc = 0_1 + 0_2$$

$$2Lxoc = 0_1 + 0_2$$

$$Lxoc = 0_1 + 0_2$$

either
$$0 = LXOC$$
 or $0 = LXOD$

$$0 = \frac{O_1 + O_2}{2}$$
 or $0 = \frac{1}{2} \left(\pi + (O_1 + O_2) \right)$



$$20 = 0_1 + 0_2$$

$$tan 20 = tan (0_1 + 0_2)$$

$$= \frac{\tan 0_1 + \tan 0_2}{1 - \tan 0_1 + \tan 0_2}$$

$$2 + a_{10} = \frac{-2h}{h}$$

$$\frac{2 \tan 0}{1 - \tan^2 0} = \frac{-2h}{b}$$

$$\frac{y|x}{1 - y^2|x^2} = \frac{-2h}{b}x$$

$$\frac{y}{b} = \frac{y}{b}$$

$$\frac{y}{b} = \frac{mx}{b}$$

$$\frac{y}{x} \times \frac{x^{2}}{x^{2} - y^{2}} = \frac{h}{a - b}$$

$$\frac{x}{x^{2} - y^{2}} = \frac{h}{a - b}$$

