

The eq. is bisectors of () is x²- y² xy Q-b line AB is lx+ my+1=0 The -1 $m_{l} =$ m Let OM_AB. Slope of M= m

 \therefore eq. of om is $y = \frac{m}{\rho} x - 4$ DAOB is isosceles if one of the bisector given by (1) is I to AB. =) if line given by 4 is one of the lines of] =) if (4) satisfies (3) $\chi^2 - \frac{m^2 \chi^2}{L^2} = \frac{\chi(\frac{m}{\chi})\chi}{h}$

ld xd - mdx2 mx 12 (a-b) =) l.h mx gical ideas. x2 (12-m2) 12 (a-b) - Ih $h(\mathcal{L}-m\mathcal{Z}) = (\mathcal{A}-\mathcal{b})\mathcal{L}m.$ Hence Proved.