

## A Line equally inclined with two lines.

Let the two lines with slopes  $m_1$  and  $m_2$  be equally inclined to a line with slope  $m$

$$\text{then, } \left( \frac{m_1 - m}{1 + m_1 m} \right) = - \left( \frac{m_2 - m}{1 + m_2 m} \right)$$

Note: Sign of  $m$  in both brackets is same.

