## Plane Geometry Ellipse

Prove that the product of focal distances of an extremity of a semi-diameter of an ellipse is equal to the square of conjugate semi diameter.

are extremities of Conjugale demi diameter.

So P (a Coso, b sino) Q (- a sino, b Coso) = a + e ( a 6080) cal ideas. Ps'= a+ex | = a (1+e600) | Ps = a-ex, = a-e (a Coso) = a [1-e6010]

$$Q_{\circ}(-a \text{ sino} - 0)^{2} + (b \text{ coso} - 0)^{2}$$

$$C_{\circ}(0,0) = Q^{2} \text{ sin}^{2}0 + b^{2} \text{ coso} - 0$$

