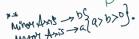
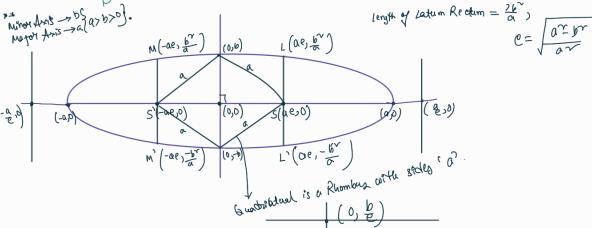
flipse

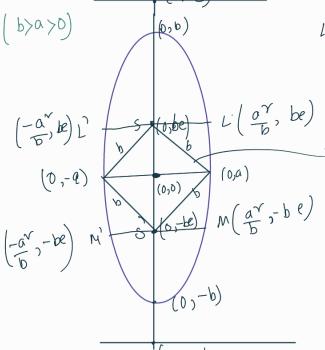
(i) Standard Bour of ellipse >

$$\frac{(a)}{a^{\gamma}} + \frac{y^{\gamma}}{b^{\gamma}} = 1 \left(\frac{3}{676} \right)$$





$$\frac{1}{a^n} + \frac{y^n}{b^n} = 1 \quad (b) \quad a>0$$



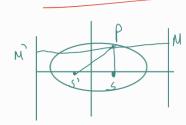
> (0,a) Quadritateral is a Rhomby, with

* use the same concept of contour's shifted to (h,t) fown oug'n.

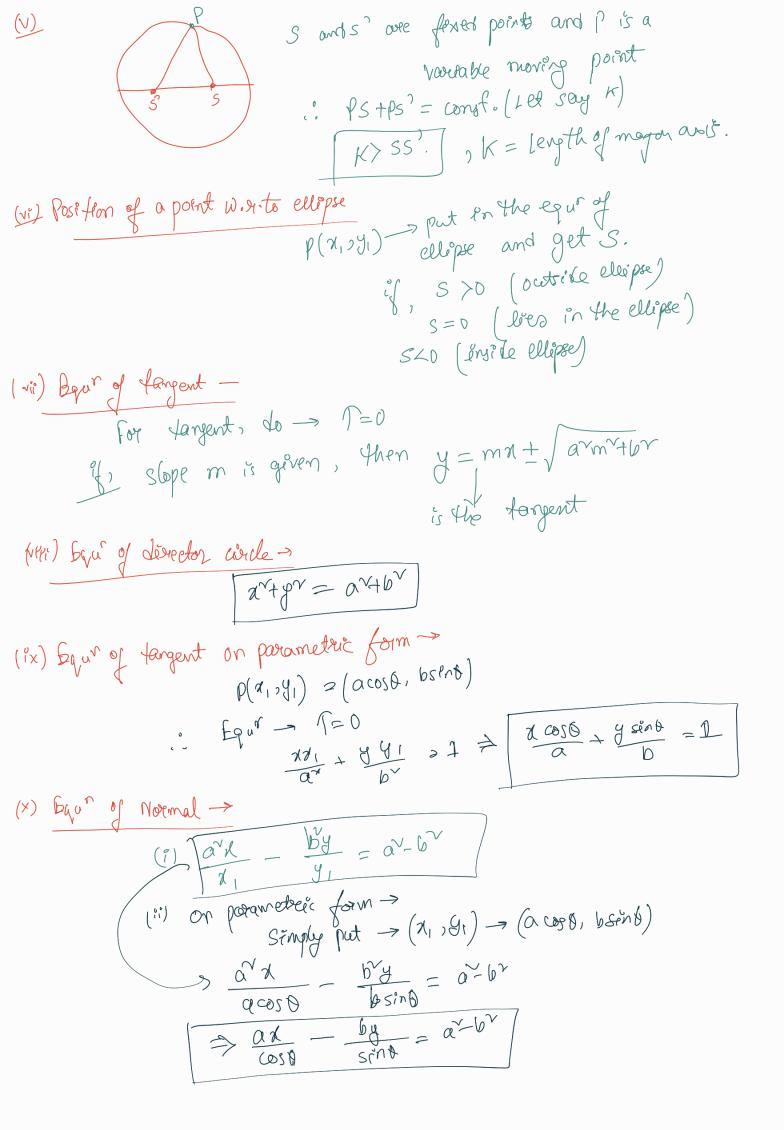
- Jake magor axis as drameter and draws a circle (Pi) Auxilous Circle :-

Parametric form of an ellipse: - ar + yr = 1, Parametric form : (a cost, bsind)

tocal Distance in an ellipse: -

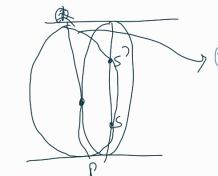


PS+Ps' = Length of the moror axis



** Result length of major axis = 2a, Length of minor axis = 2b Then, distance of normal from center $\leq (a-b)$. (x) Chord of an ellipse; from of $c.0c \rightarrow (7=0)$ (\mathcal{A}) $\frac{2x_1}{a} + \frac{yy_1}{b} = 1$ (b) T=S $\frac{2a_1}{a^2} + \frac{yy_1}{b^2} - 1 = \frac{2a_1}{a^2} + \frac{y_1^2}{b} - 1$ Then egar of Chard becomes, (PB) P (a cos 0, b sint) (C) $\frac{2}{\alpha} \cos\left(\frac{0+8}{2}\right) + \frac{4}{6} \operatorname{sen}\left(\frac{0+8}{2}\right)$ & (acosø, bsinø) $= \cos\left(\frac{6-0}{2}\right)$ Result If Chard passes through S(ae, 0) -> Then, $\frac{1}{2} = \frac{e-1}{e+1}$ If chord passes through s(-ae,0) -> $\frac{1}{4} \operatorname{an} \frac{0}{2} + \frac{1}{4} \operatorname{an} \frac{0}{2} = \frac{0+1}{0-1}$ * Some Pouperties of ellipse:-Here, PxP2 = (semi-major axis). (i) Feet of I'm drawn from either four meets on the director ciacle

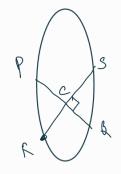




jode on dramater pa.

A civile is drawr pa as diameter, then the ctricle also passes through the focie of the ellipse.

(V)



(iv)

$$\Rightarrow \frac{1}{(CP)^{r}} + \frac{1}{(CR)^{r}} = \frac{1}{a^{r}} + \frac{1}{b^{r}}$$