Date التاريخ Subject موضوع الدرس lecture 3 Para bola :-Definition: let F be apoint in The plane and D be odine not Containing F. Aparabola is The set of all points egul distance from f and D. The Point F is Called focus of The parobola and Dis called The directrix of The parabola y2=4Px > P>0 CXXX Direct Vix (0,0) Vertex focus (0,0) (x,-P) $\sqrt{(X-6)^2+(y-P)^2} = \sqrt{(X-X)^2+(y-(-P))^2}$ (y-KP=4PCX-h), P>0 $\chi^2 + y^2 - 2Py + P^2 = y^2 + 2Py + P^2$ X=4PY directrix. 42=4Px -> P<0

+P -> Right

-P > left





