

$$r(1 + \cos \theta) = 2a$$

$$\cos \theta = \frac{x}{r}$$

$$r \left(1 + \frac{x}{r} \right) = 2a$$

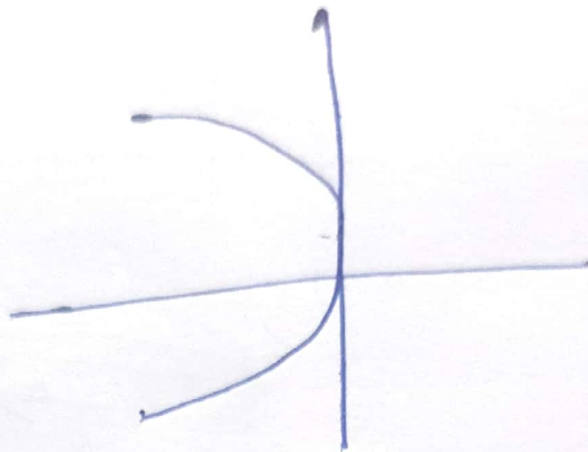
$$r + x = 2a$$

$$r = 2a - x$$

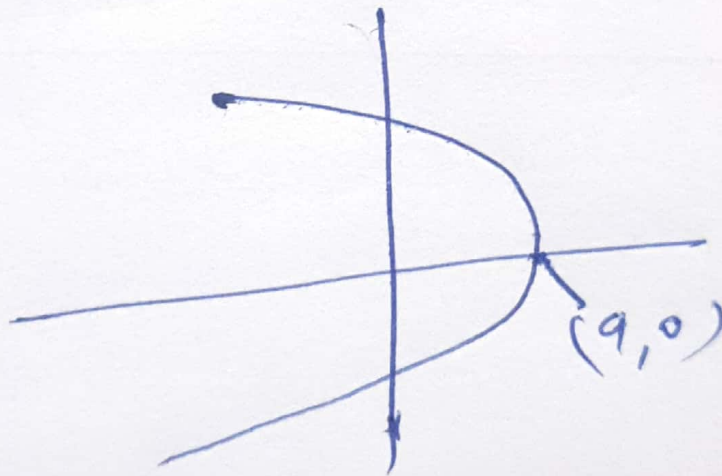
$$r^2 = (2a - x)^2$$

$$y^2 + x^2 = 4a^2 - 4ax + x^2$$

$$y^2 = 4a^2 - 4ax$$



$$y^2 = -49x$$



$$y^2 = 49^2 - 49x$$