Goal:
$$\chi^2 + (m\chi + b)^2 = r^2$$

La $\alpha \chi^2 + b \chi + c = 0$

$$M = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\left(\chi - \chi_3\right)^2 + \left(\left(\underline{m}\chi + \underline{b}\right) - \underline{y}_3\right)^2 = \underline{r}^2$$

$$x^2 - 2x_3x_1 x_3^2 + \frac{1}{2}x_1^2 + 2x_2 x_1 + \frac{1}{2} - \frac{1}{2} = 0$$

$$(m^2+1)\chi^2+(2mz-2x_3)\chi+(\chi_3^2+Z^2-\Gamma^2)=0$$

$$(m^{2}+1)\chi^{2} + (2m(b-y_{3})-2\chi_{3})\chi + (\chi_{3}^{2}+(b-y_{3})^{2}-r^{2}) = 0$$

3. if
$$b^2 - 4ac$$
 < 0 = no
= 0 = 1 intersection(s)
> 0 = 2