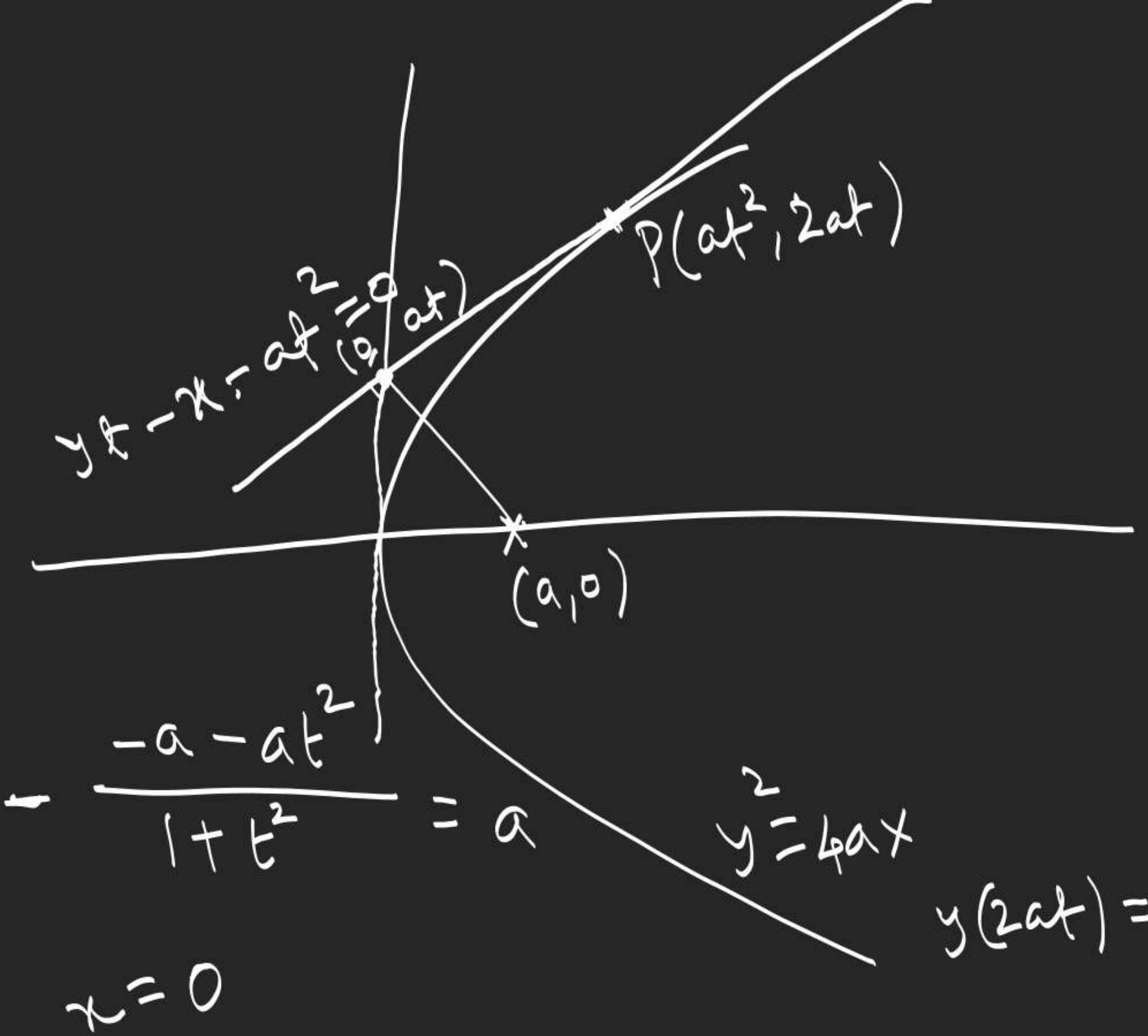


(3)

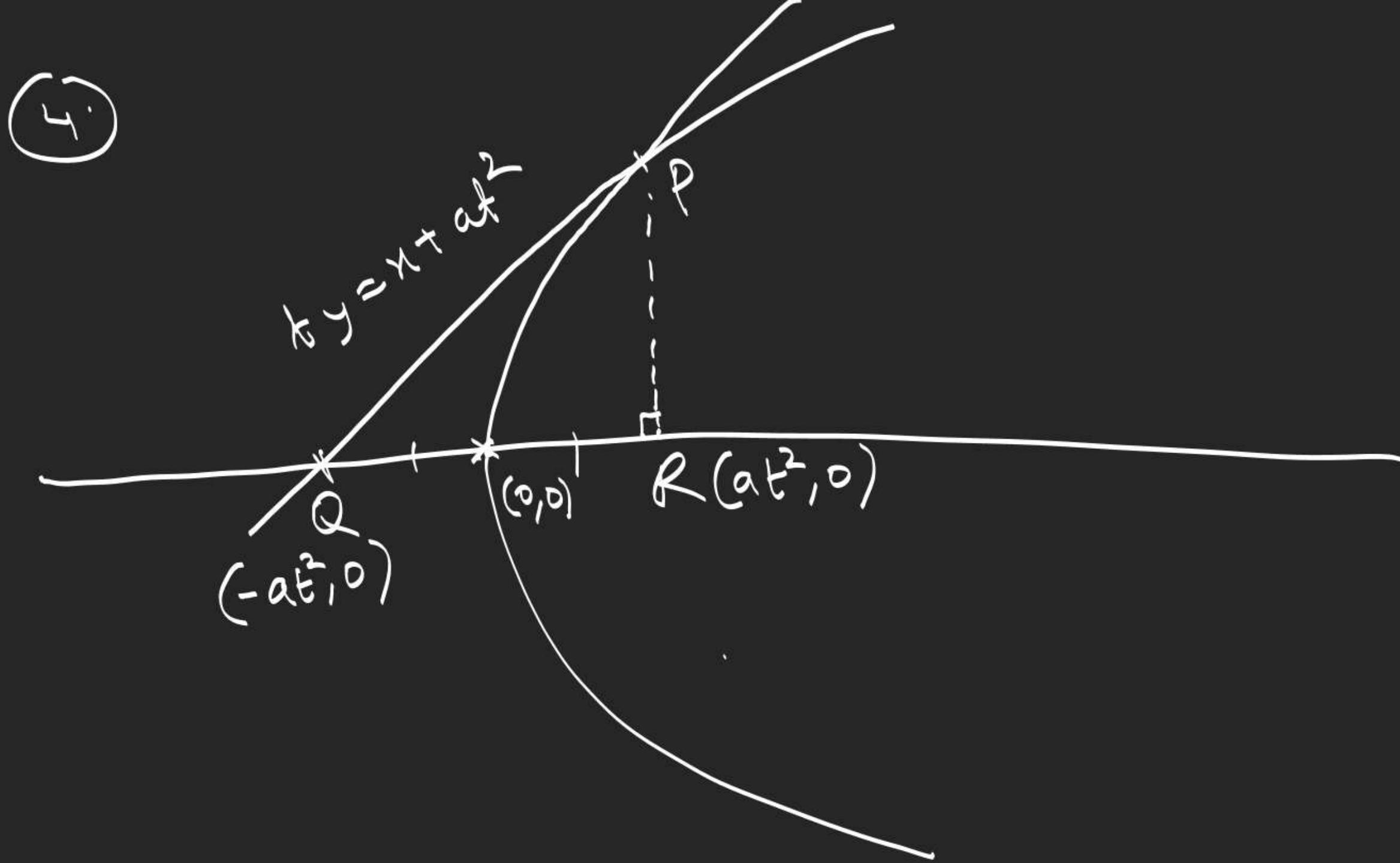


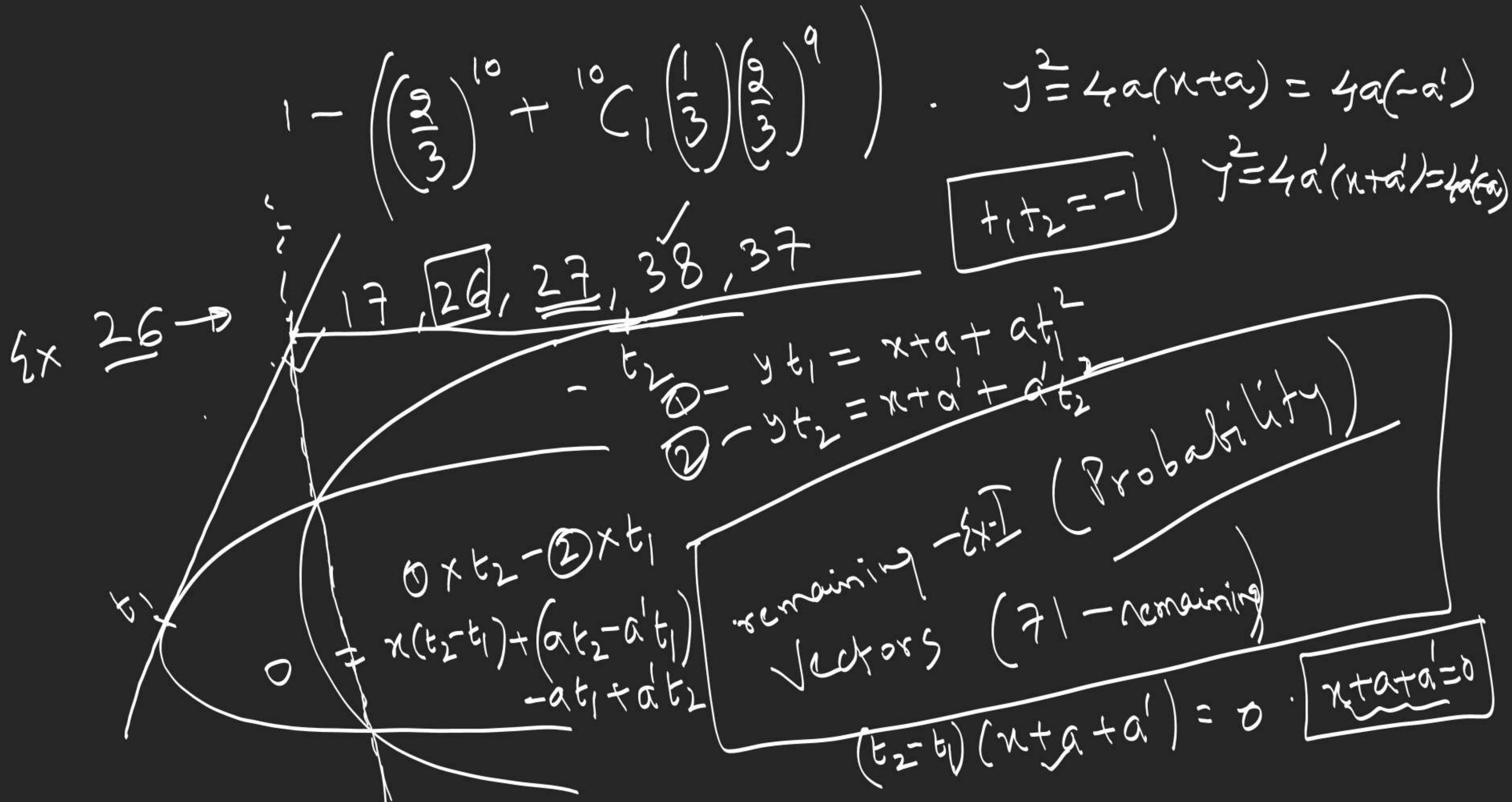
$$\frac{x-a}{-t} = -\frac{-a-at^2}{1+t^2} = a$$

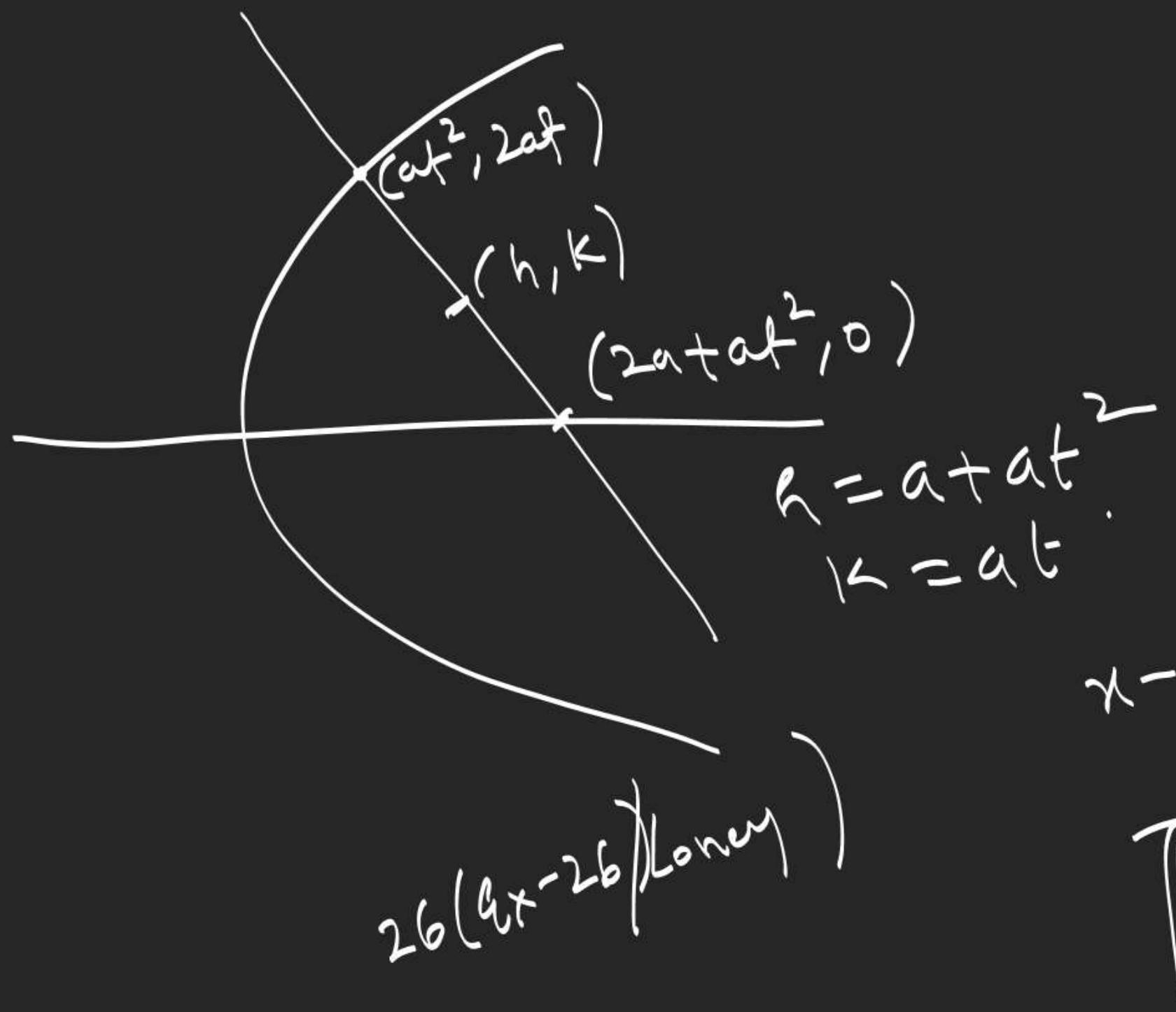
$$x = 0$$

$$y^2 = 4ax$$

$$y(2at) = 2a(x + at^2)$$

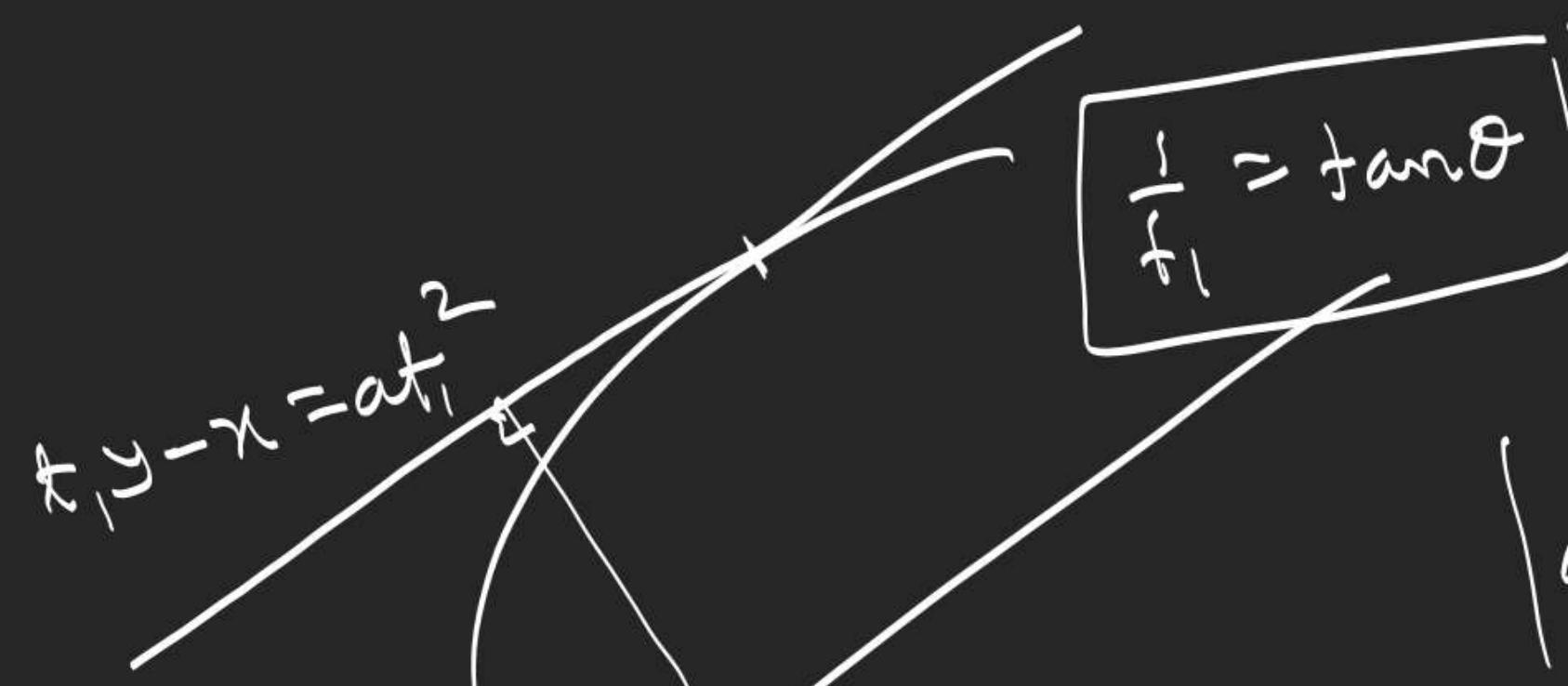






$$x - a = a \frac{y^2}{a^2}$$

$$\boxed{a(x-a) = y^2}$$



$$-t_2 = \frac{1}{t_1}$$

$$t_1 y - x = -2a - \frac{a}{t_1^2}$$

$$y + t_2 x = 2at_2$$

$$y - \frac{x}{t_1} = -2\frac{a}{t_1} - \frac{a}{t_1^3}$$

$$t_1 y - x = at_1^2$$

$$\frac{1}{t_1} = \tan \theta$$

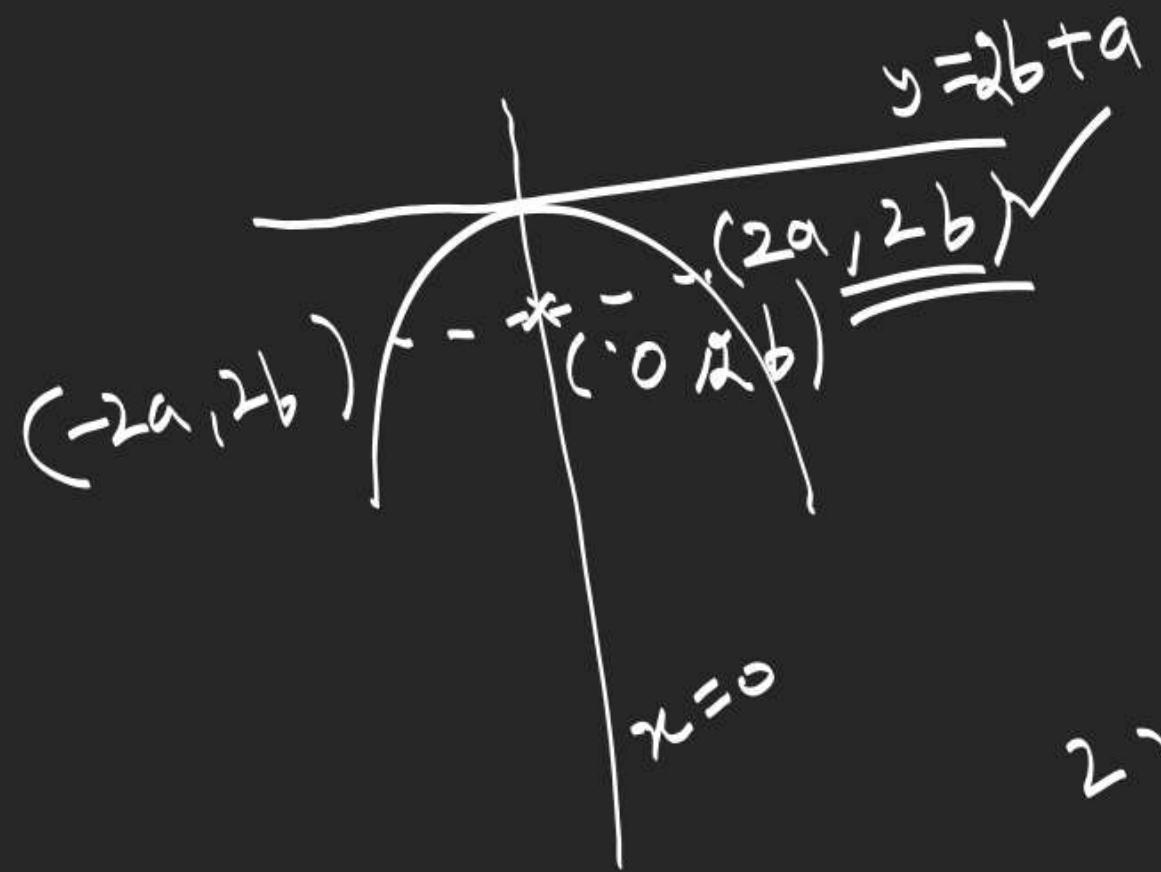
$$d = \sqrt{\frac{at_1^2 + \frac{a}{t_1^2} + 2a}{1+t_1^2}}$$

$$= \sqrt{a \left( \tan^2 \theta + \cot^2 \theta + 2 \right)}$$

$$= \frac{a (\tan \theta + \cot \theta)^2 \sin \theta}{\sin^2 \theta \cos^2 \theta}$$

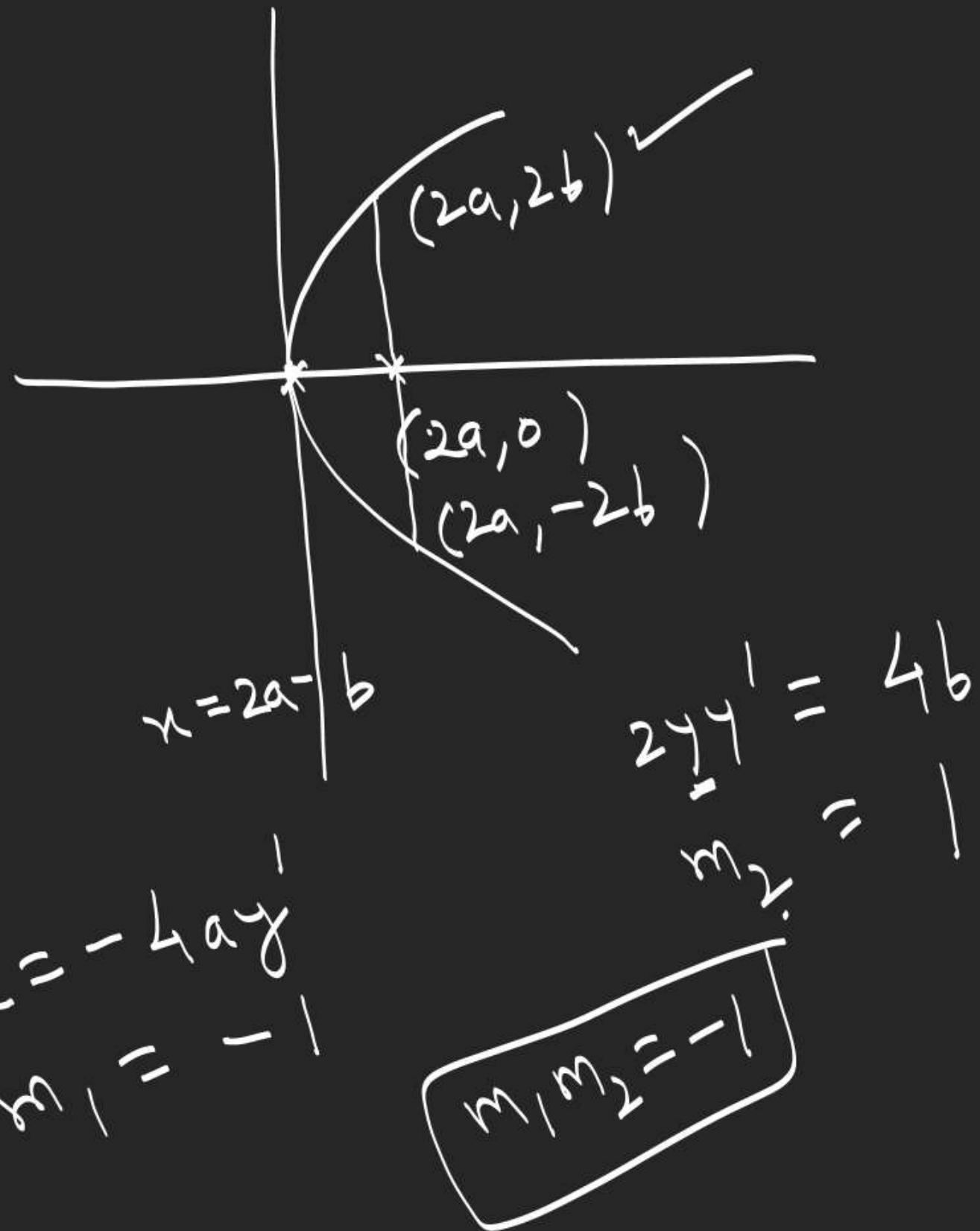
$$x^2 = -4a(y-2b-a)$$

$$y^2 = 4b(x-2a+b) \quad \checkmark$$



$$2x = -4ay$$

$$m_1 = -1$$



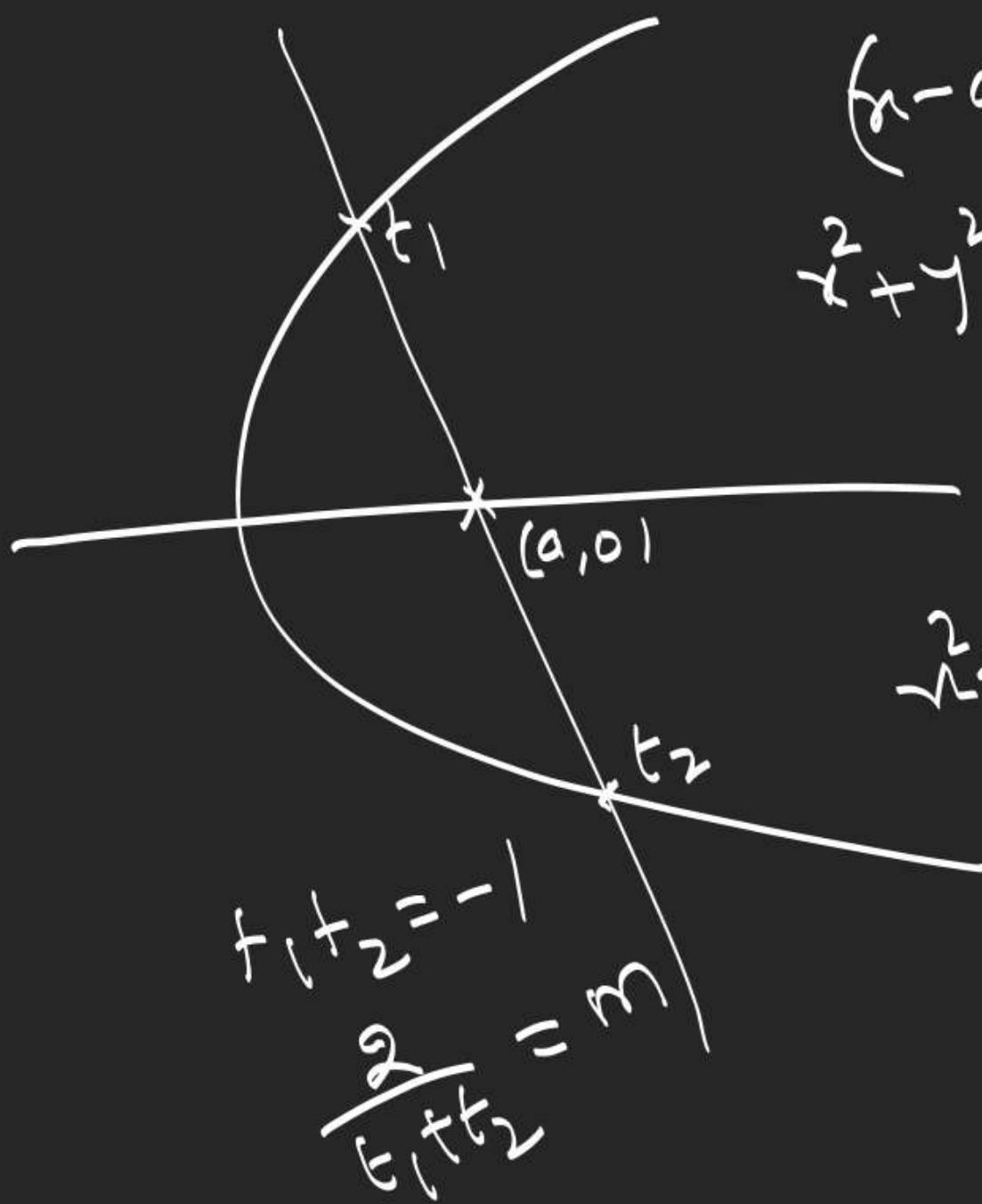
$$2y^2 = 4b$$

$$m_1 m_2 = 1$$

$$m_1 m_2 = -1$$

$\Sigma x - 28$ 

23, 24, 29, 18.



$$\begin{aligned}
 & (x - at_1^2)(x - at_2^2) + (y - 2at_1)(y - 2at_2) = 0 \\
 & x^2 + y^2 - ax((t_1 t_2)^2 - 2t_1 t_2) - 2ay(t_1 t_2) \\
 & + a^2 t_1^2 t_2^2 + 4a^2 t_1 t_2 = 0 \\
 & x^2 + y^2 - ax\left(\frac{4}{m^2} + 2\right) - 2ay\left(\frac{2}{m}\right) - 3a^2 = 0
 \end{aligned}$$