

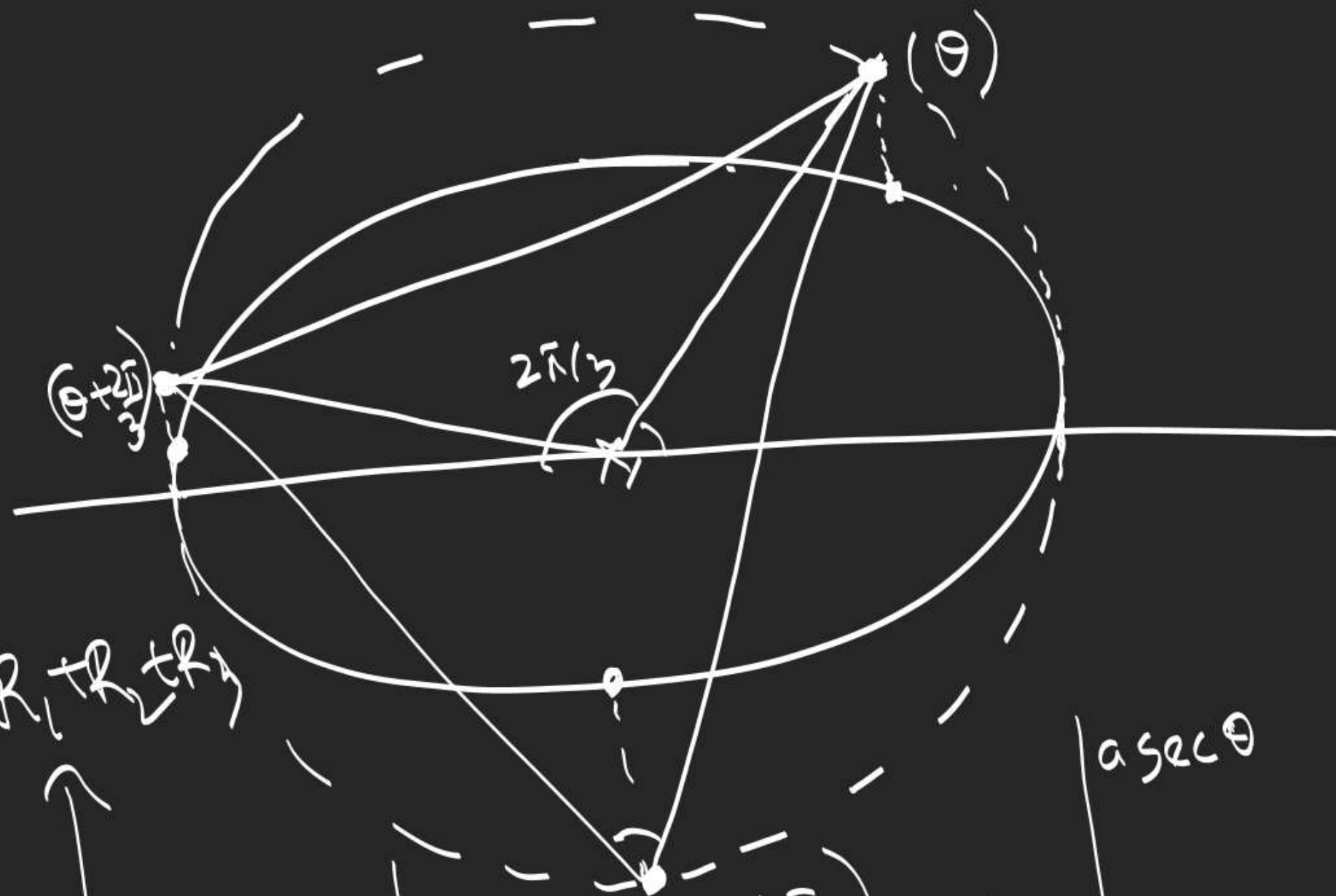
$\frac{y_3 - y_1}{x_3 - x_1} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{y_3 - y_2}{x_3 - x_2}$

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$$R_1 \rightarrow R_1 + R_2 + R_3$$

$$\frac{ab^2e^2}{2\sin\theta\cos\theta}$$

$$\begin{vmatrix} \sin\theta & \cos\theta & \sin 2\theta \\ \sin(\theta + \frac{2\pi}{3}) & \cos(\theta + \frac{2\pi}{3}) & \sin(2\theta + \frac{4\pi}{3}) \\ \sin(\theta + \frac{4\pi}{3}) & \cos(\theta + \frac{4\pi}{3}) & \sin(2\theta + \frac{8\pi}{3}) \end{vmatrix}$$

$$= 0$$

$$a \sec \theta$$

$$b \sec \theta$$

$$c^2 e^2$$

$$\frac{x \cos\left(\frac{\theta_1 + \theta_2}{2}\right)}{a} + \frac{y \sin\left(\frac{\theta_1 + \theta_2}{2}\right)}{b} = \cos\left(\frac{\theta_1 - \theta_2}{2}\right) = \cos \frac{\pi}{8}$$

$$px + qy = r$$

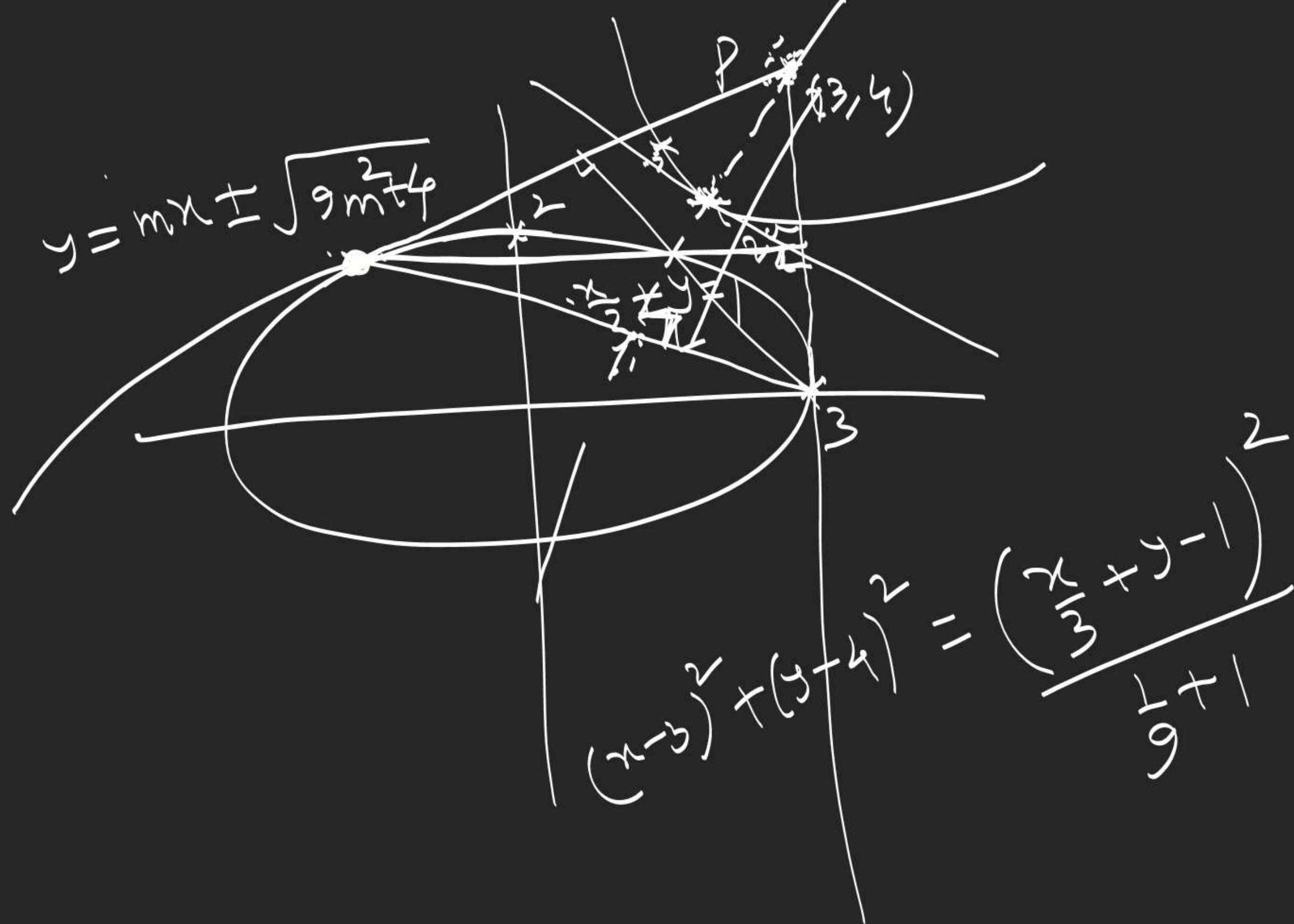
$$\frac{ap}{\cos\left(\frac{\theta_1 + \theta_2}{2}\right)} = \frac{qb}{\sin\left(\frac{\theta_1 + \theta_2}{2}\right)} = \frac{r}{\cos \frac{\pi}{8}}$$

$$\frac{x \cos \theta}{3\sqrt{3}} + y \sin \theta = 1$$

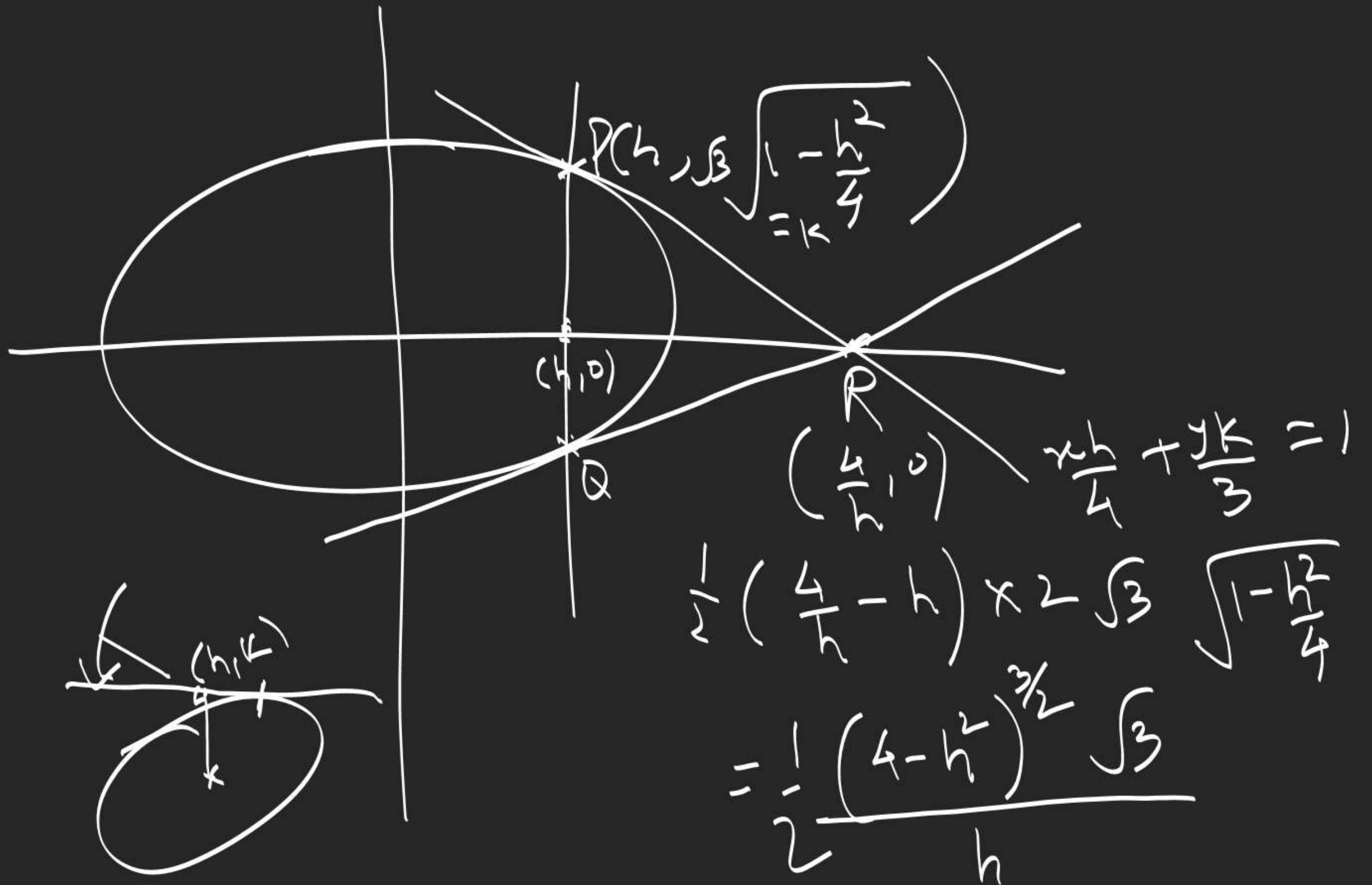
$$L(\theta) = \frac{3\sqrt{3}}{\cos \theta} + \frac{1}{\sin \theta}$$

$$L'(\theta) = \frac{3\sqrt{3} \sin \theta}{\cos^2 \theta} - \frac{\cos \theta}{\sin^2 \theta} = \frac{3\sqrt{3} \sin^3 \theta - \cos^3 \theta}{(\quad)^2}$$

$$\frac{3\sqrt{3} + \tan^3 \theta - 1}{\cos^3 \theta}$$







21-29, + Relations

↓  
Thurs.

Monday → Hyperbola (Ex-III)