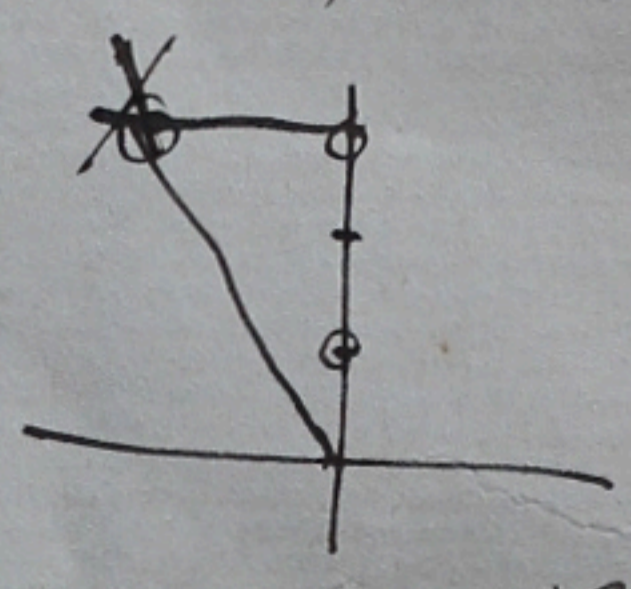
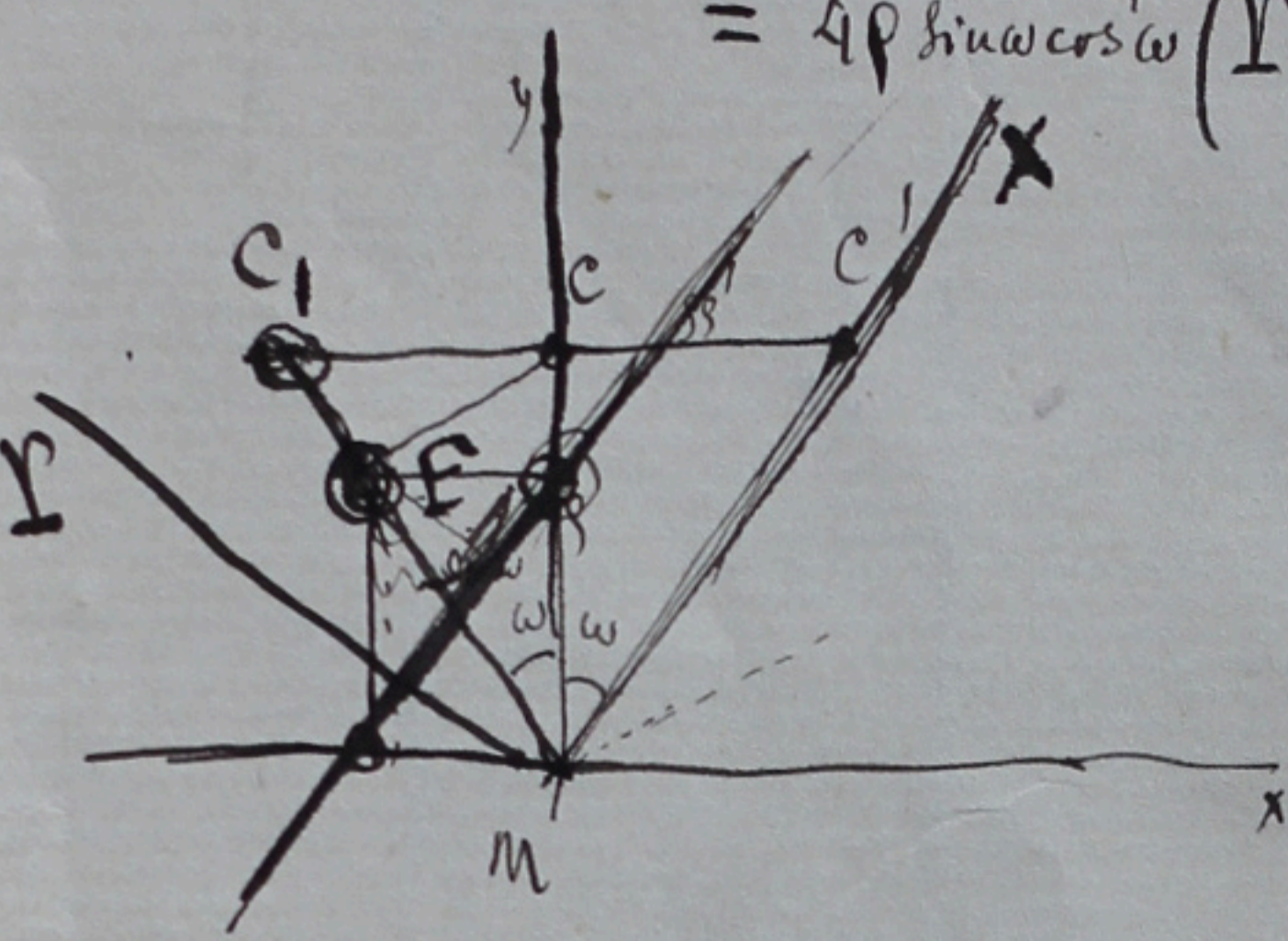


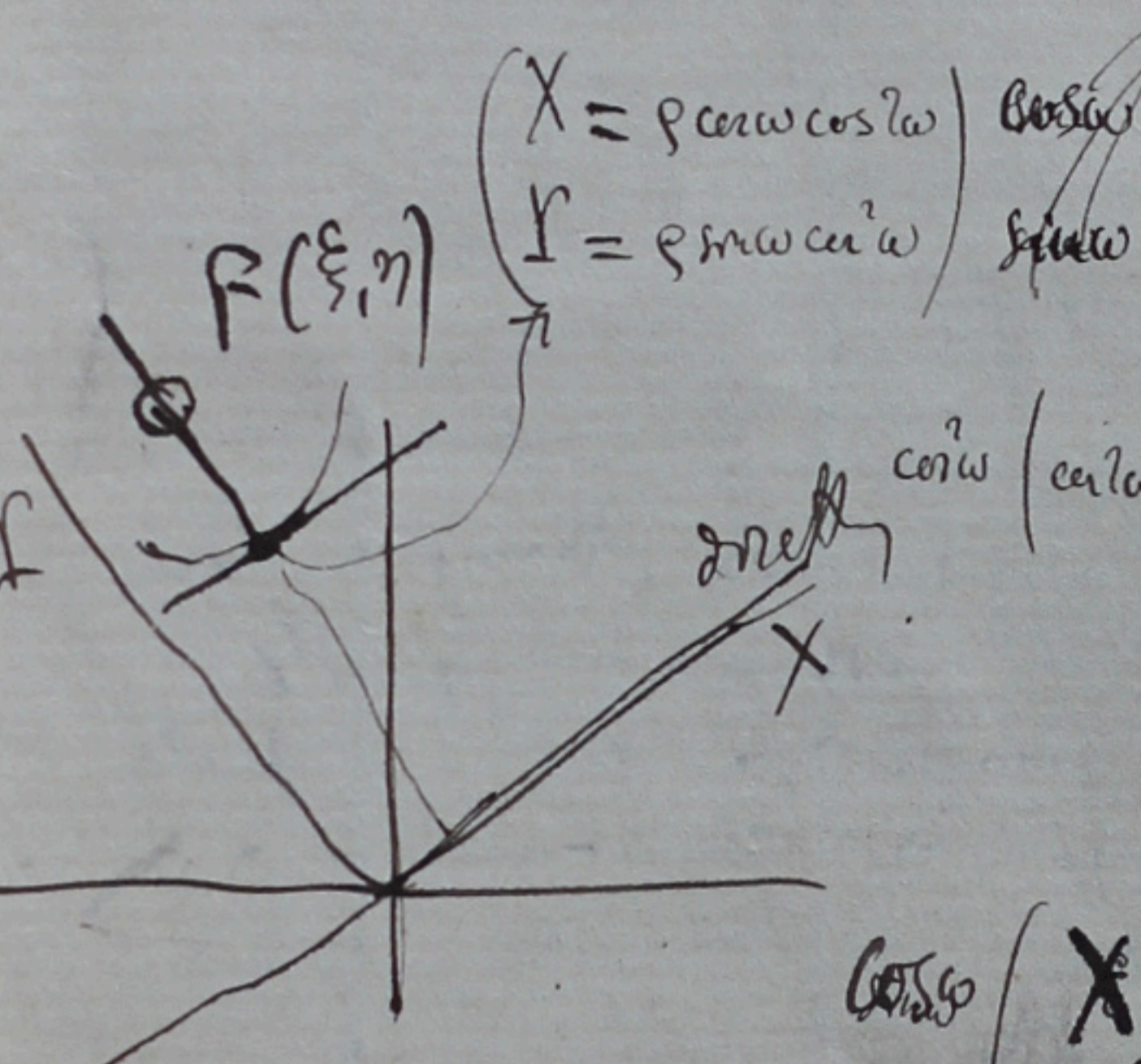


$$\begin{aligned}
 (X - \rho \cos \omega \cos 2\omega)^2 &= \rho^2 \cos^2 \omega \cos^2 2\omega + 4\rho \Gamma \sin \omega \cos^3 \omega - \rho^2 \cos^2 \omega \sin^2 2\omega \\
 &= 4\rho \Gamma \sin \omega \cos^3 \omega - 4\rho^2 \sin^2 \omega \cos^4 \omega \\
 &= 4\rho \sin \omega \cos^3 \omega (\Gamma - \rho \sin \omega \cos^2 \omega)
 \end{aligned}$$

$$\begin{aligned}
 \rho &= a + \frac{s^2}{a} \\
 \rho' &= \frac{2s}{a}
 \end{aligned}$$



$$\begin{aligned}
 x &= \alpha s \\
 y &= \beta \rho
 \end{aligned}$$



$$\begin{aligned}
 (X = \rho \cos \omega \cos 2\omega) & \text{ cos } \omega \\
 (Y = \rho \sin \omega \cos^2 \omega) & \text{ sin } \omega
 \end{aligned}$$

$$\begin{aligned}
 x &= \rho \sin^3 \omega \cos \omega \\
 y &= \rho \cos^4 \omega
 \end{aligned}$$

$$X^2 = 4\rho \sin \omega \cos^3 \omega \cdot Y$$

$$\begin{aligned}
 \cos \omega & \left( X = \rho \cos \omega \cos 2\omega \right) \\
 \sin \omega & \left( Y = \rho \sin \omega \cos^2 \omega + \rho \sin \omega \sin^2 \omega \right)
 \end{aligned}$$

$$x^2 = 4\rho y$$

$$\rho = 2\gamma \sin \omega \cos^3 \omega$$

$$\begin{cases}
 \xi = -\rho \sin \omega \cos \omega \\
 \eta = \rho \cos^2 \omega
 \end{cases}$$

$$\begin{aligned}
 \xi &= \rho \sin \omega \cos \omega \cos 2\omega - 2\gamma \sin \omega \cos^3 \omega = \rho \sin \omega \cos \omega (\cos 2\omega - 2\cos^2 \omega - \sin^2 \omega) \\
 &= \rho \sin \omega \cos \omega (\cos 2\omega - 2\cos^2 \omega - \sin^2 \omega)
 \end{aligned}$$

$$\frac{\eta}{\xi} = -\cot \omega$$

$$\eta = \rho \cos^2 \omega (\cos \omega + 2\sin \omega)$$