

$(x_0, y_0)$  已知

$$\begin{cases} f_{1,0} = -\frac{2f_c}{c} v_0 \cos(\theta_0 - \frac{\phi_{1,0} + \psi_0}{2}) \cos(\frac{\phi_{1,0} - \psi_0}{2}) \\ f_{2,0} = -\frac{2f_c}{c} v_0 \cos(\theta_0 - \frac{\phi_{2,0} + \psi_0}{2}) \cos(\frac{\phi_{2,0} - \psi_0}{2}) \end{cases}$$

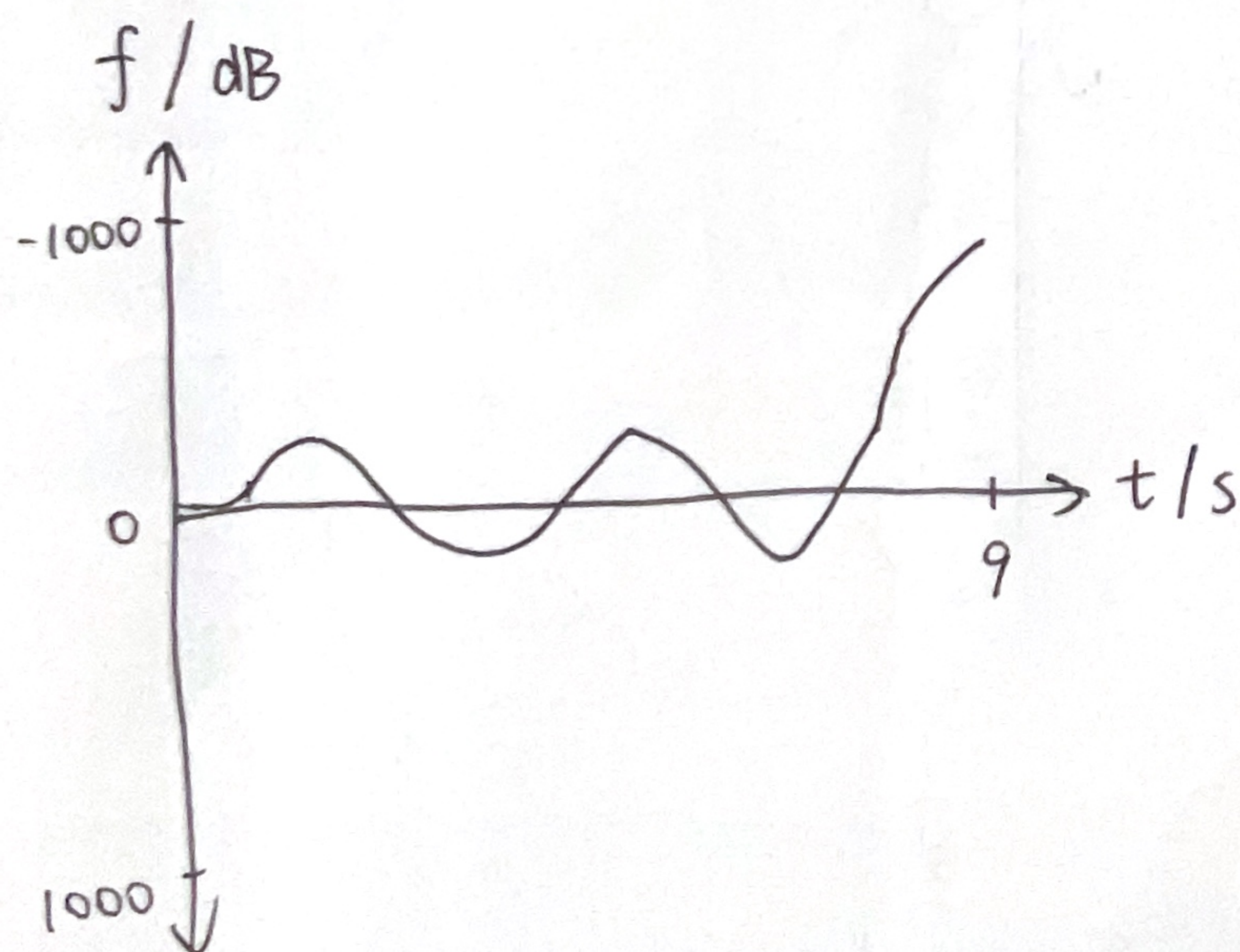
解得  $v_0, \theta_0$

$$\begin{cases} x_1 = x_0 + v_0 N_0 T_s \cos \theta_0 \\ y_1 = y_0 + v_0 N_0 T_s \sin \theta_0 \end{cases} \quad \text{求得 } (x_1, y_1)$$

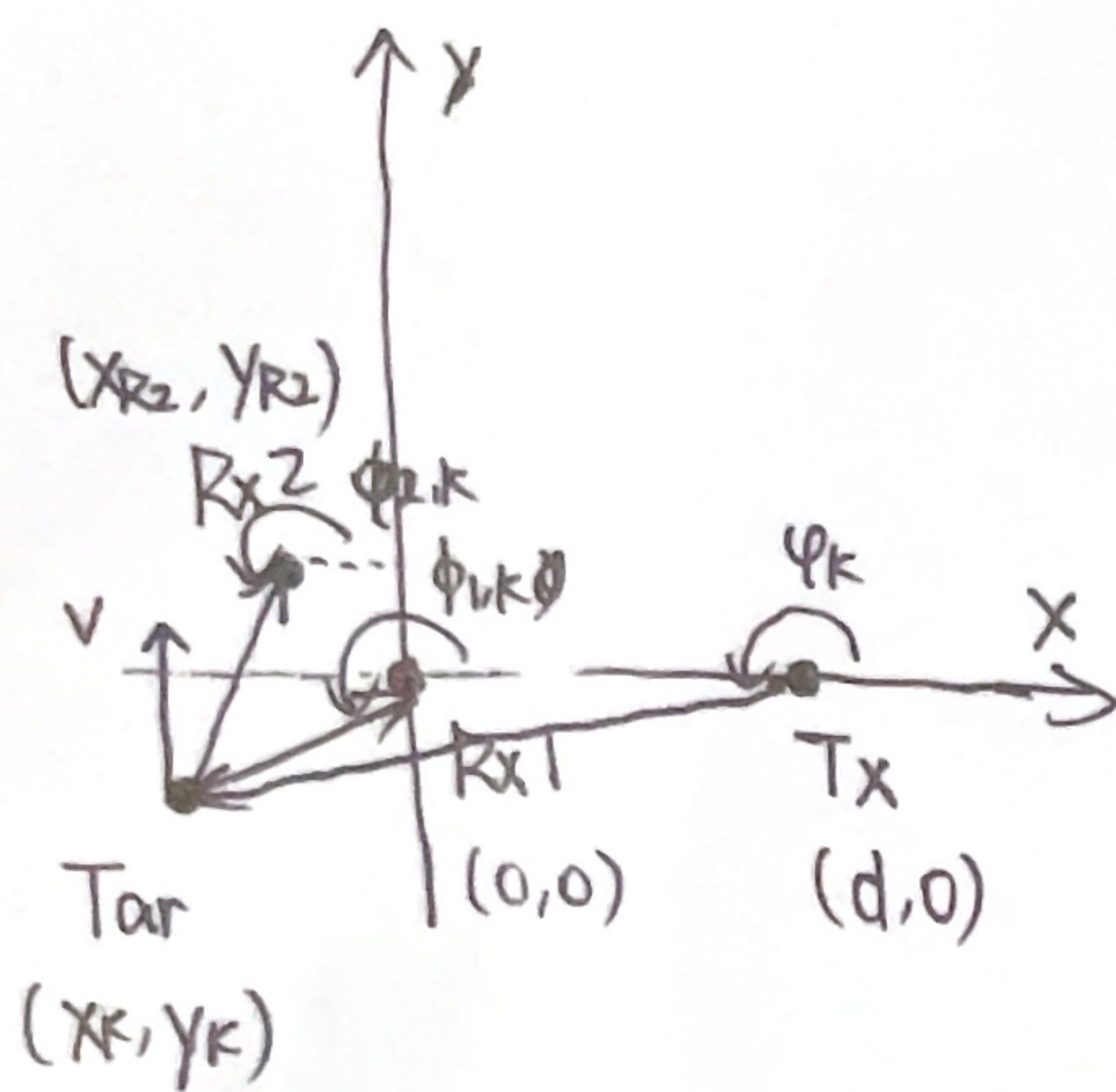
$$\begin{cases} f_{1,1} = -\frac{2f_c}{c} v_1 \cos(\theta_1 - \dots) \cos(\dots) \\ \dots \end{cases}$$

解得  $v_1, \theta_1$

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$$\begin{cases} \phi_{1,k} = \arctan\left(\frac{Y_k}{X_k}\right) \\ \phi_{2,k} = \arctan\left(\frac{Y_k - Y_{R2}}{X_k - X_{R2}}\right) \\ \psi_k = \arctan\left(\frac{Y_k}{X_k - d}\right) \end{cases}$$

$$\begin{cases} f_{1,k} = -\frac{2f_c}{c} v_k \cos\left(\theta_k - \frac{\phi_{1,k} + \psi_k}{2}\right) \cos\left(\frac{\phi_{1,k} - \psi_k}{2}\right) \\ f_{2,k} = -\frac{2f_c}{c} v_k \cos\left(\theta_k - \frac{\phi_{2,k} + \psi_k}{2}\right) \cos\left(\frac{\phi_{2,k} - \psi_k}{2}\right) \end{cases}$$

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$$\begin{cases} X_{k+1} = X_k + v_k N_0 T_s \cos \theta_k \\ Y_{k+1} = Y_k + v_k N_0 T_s \sin \theta_k \end{cases}$$