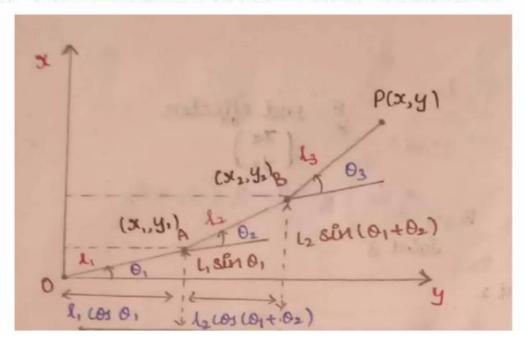
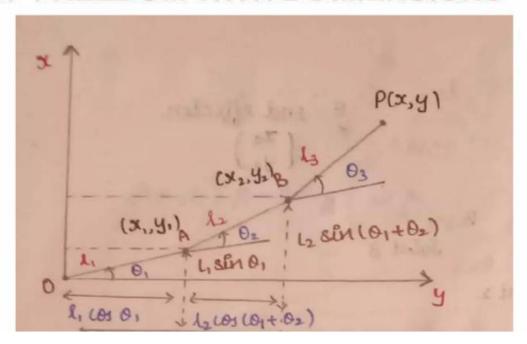
INVERSE KINEMATICS FOR 3 DEGREE OF FREEDOM WITH 2 DIMENSIONS



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By solving eqn
$$0 \le 0$$

 $\sin \theta_1 = \frac{(l_1 + l_2 \cos \theta_2) y_2 - (l_2 \sin \theta_2) x_2}{x_2^2 + y_2^2} \longrightarrow A$
Simily
$$\frac{(l_1 + l_2 \cos \theta_2) x_2 + (l_2 \sin \theta_2) y_2}{x_2^2 + y_2^2} \longrightarrow B$$
Formula:-
$$\tan \theta_1 = \frac{\sin \theta_1}{\cos \theta_1} \implies \theta_1 = \tan^{-1} \left\{ \frac{\sin \theta_1}{\cos \theta_1} \right\}$$