



NAME _____

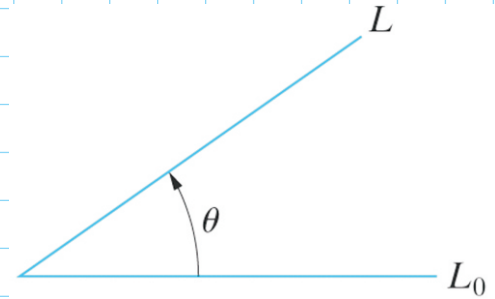
DATE _____

WEEK: _____

PROBLEM: _____

GIVEN:

The angular acceleration of the line L relative to the line L_0 is given as a function of time by $\alpha = 2.5 - 1.2t \text{ rad/s}^2$. At $t = 0$, $\theta = 0$ and the angular velocity of L relative to L_0 is $\omega = 5 \text{ rad/s}$. Determine θ and ω at $t = 3 \text{ s}$.

**REQUIRED:****SOLUTION:**