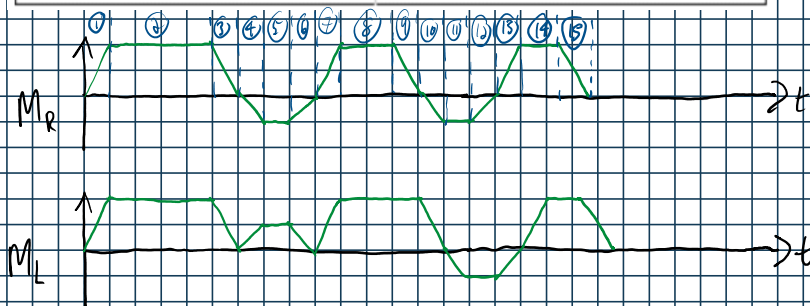
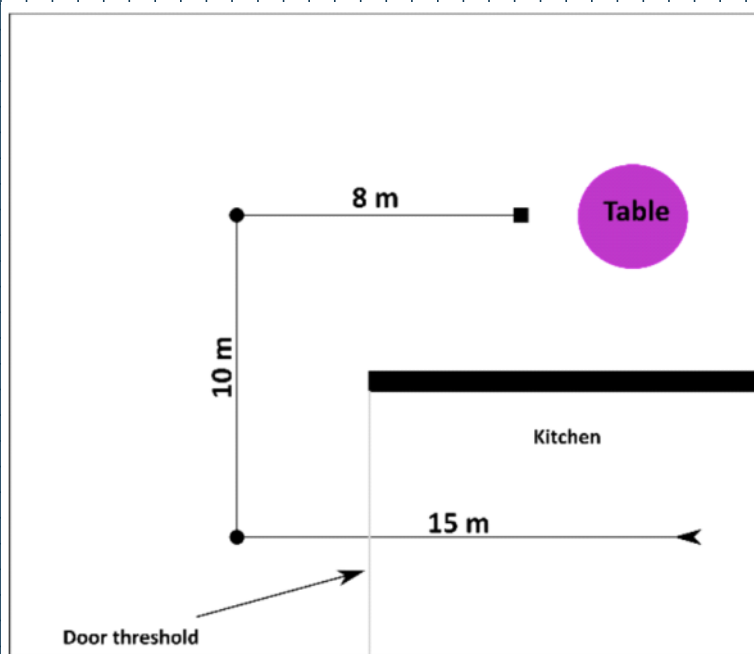


# Path

July 26, 2025 3:07 PM



Assuming max speed is reached for each movement: ~~★~~ this needs to be checked once all max velocities and accelerations are chosen.

linear acceleration:  $t_1 = t_3 = t_7 = t_9 = t_{13} = t_{15} = \frac{V_{max}}{a}$   $d_a = \frac{t_1 V_{max}}{2} = \frac{V_{max}^2}{2a}$

linear skew:  $t_2 = \frac{15 \cdot 2d_a}{V_{max}}$   
 $t_8 = \frac{10 \cdot 2d_a}{V_{max}}$   
 $t_{14} = \frac{8 \cdot 2d_a}{V_{max}}$

angular acceleration:  $t_4 = t_6 = t_{10} = t_{12} = \frac{\omega_{max}}{a}$   $\theta_a = \frac{t_4 \omega_{max}}{2} = \frac{\omega_{max}^2}{2a}$

angular skew:  $t_5 = t_{11} = \frac{\frac{\omega_{max}^2}{2a} - 2d_a}{\omega_{max}}$