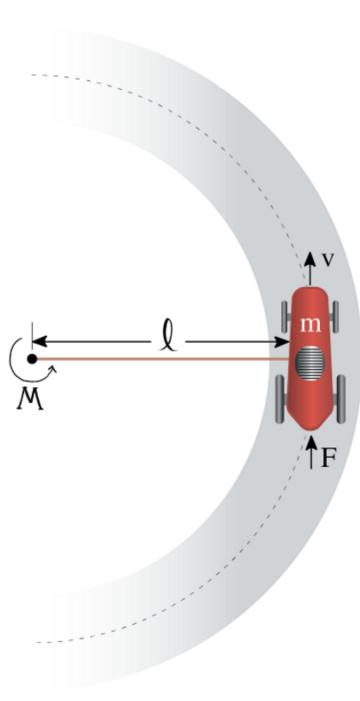
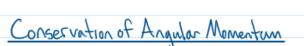
21-P-MOM-GD-O11



A couple moment M = A + 2 N_m is applied to the l_m wooden stick and the wind-up mechanism in the car applies a driving force of F = B + N, where t is in seconds. If the car has a mass of m kg and the car starts at cest, how fast is the car moving at $t = \frac{1}{2} + \frac{1}{2}$

(Neglect the mass of the wooder stick)



$$Mly_1 + \int_0^t At^2 dt + \int_0^t B+l dt = Mlv_2$$

$$V_2 = \frac{{}^{1}3At^3 + {}^{1}2Blt^2}{Ml}$$

