

Initial conditions: $x = v = 0$ at $t = 0 \quad \therefore C_1 = C_2 = 0$

(a) When $v = 0$:

$$v = 1.637t^2 - 3.355t = 0 \quad t = 2.049 \text{ s}$$

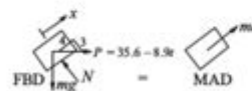
$$x = 0.5457(2.049^3) - 1.678(2.049^2) = -2.35 \text{ m} \blacktriangleleft$$

(b) When $x = 0$:

$$x = 0.5457t^3 - 1.678t^2 = 0 \quad t = 3.075 \text{ s}$$

$$v = 1.637(3.075^2) - 3.355(3.075) = 5.16 \text{ m/s} \blacktriangleleft$$

12.40



$$\Sigma F_x = ma + \nearrow \frac{4}{5}P - \frac{3}{5}mg = ma$$

$$a = \frac{4}{5m}P - \frac{3}{5}g = \frac{4(35.6 - 8.9t)}{5(22.2/9.81)} - \frac{3}{5}(9.81) = 6.70 - 3.146t \text{ m/s}^2$$

$$v = \int a \, dt = 6.70t - 1.573t^2 + C_1$$

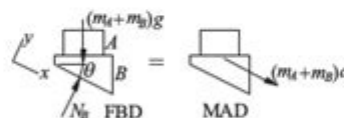
$$x = \int v \, dt = 3.35t^2 - 0.7865t^3 + C_1t + C_2$$

Initial conditions: $v = -3.05 \text{ m/s}, x = 0$ at $t = 0 \quad \therefore C_1 = -3.05 \text{ m/s} \quad C_2 = 0$
When $x = 0$:

$$3.35t^2 - 0.7865t^3 - 3.05t = 0 \quad t = 1.3187 \text{ s} \blacktriangleleft$$

$$v = 6.7(1.3187) - 1.573(1.3187)^2 - 3.05 = 3.05 \text{ m/s} \blacktriangleleft$$

12.41



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