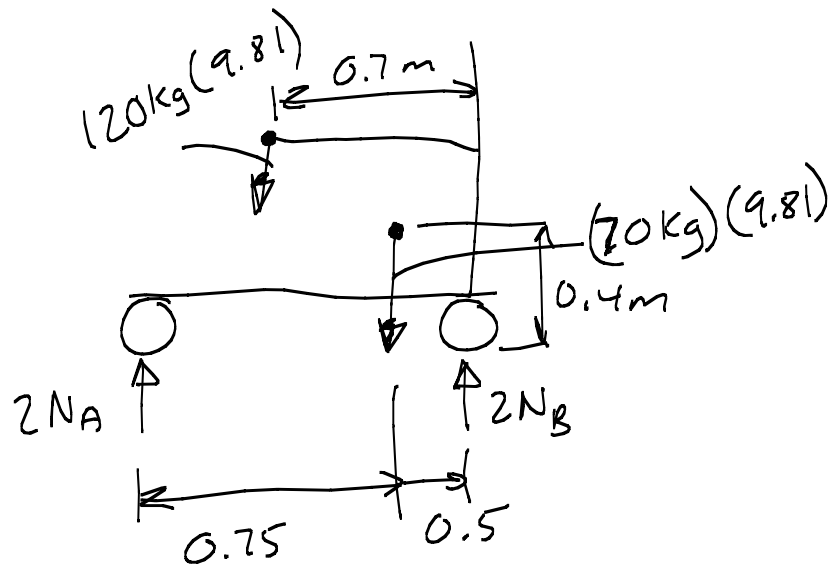
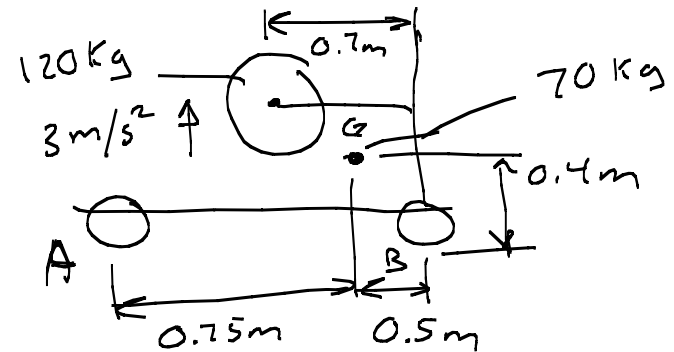


Problem 3

Lift truck does not accelerate

Determine: Reactions of each of the four wheels



$$\uparrow \sum M_B = \sum (\gamma K)_B$$

$$-(2N_A)(1.25\text{m}) + (70)(9.81)(0.5) + (120)(9.81)(0.7) = -(120)(3)(0.7)$$

$$N_A = 567.76 \text{ Newtons}$$

$$+\uparrow \Sigma F_y = may$$

$$2(567.76) + 2N_B - 70(9.81) - (120)(9.81) = 120(3)$$

$$N_B = 544 \text{ Newtons}$$