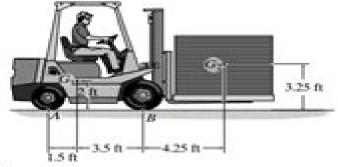
•17-37. If the forklift's rear wheels supply a combined traction force of F<sub>A</sub> = 300 lb, determine its acceleration and the normal reactions on the pairs of rear wheels and front wheels. The forklift has a weight of 2000 lb, with center of gravity at G<sub>1</sub>, and the load weighs 900 lb, with center of gravity at G<sub>2</sub>. The front wheels are free to roll. Neglect the weight of the wheels.



Equations of Motion: The acceleration of the forklift can be obtained directly by writing the force equation of motion along the x axis.

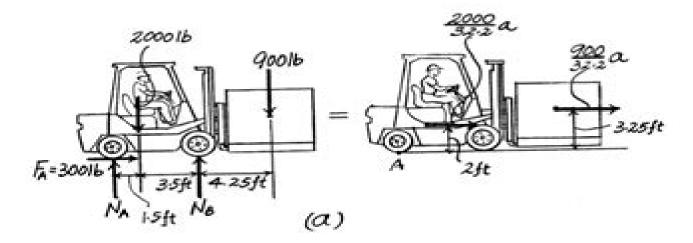
$$\pm \Sigma F_x = m(a_G)_x$$
;  $300 = \frac{2000}{32.2}a + \frac{900}{32.2}a$   
 $a = 3.331ft/s^2$ 

Using this result and writing the moment equation of motion about point A,

$$\zeta + \Sigma M_A = (M_E)_A$$
;  $N_B(5) - 2000(1.5) - 900(9.25) = -\left(\frac{2000}{32.2}\right)(3.331)(2) - \left(\frac{900}{32.2}\right)(3.331)(3.25)$   
 $N_B = 2121.72 \text{ lb} = 2122 \text{ lb}$  Ans.

Finally, writing the force equation of motion along the y axis and using this result,

$$+\uparrow \Sigma F_y = m(a_G)_y$$
;  $N_A + 2121.72 - 2000 - 900 = 0$   
 $N_A = 778.28 \text{ lb} = 778 \text{ lb}$  Ans.



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