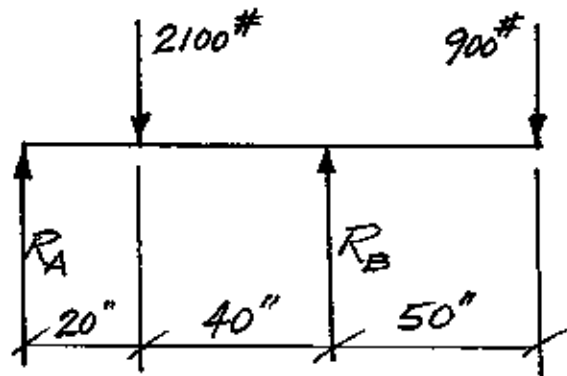


2100-lb TRACTOR
LIFTS 900 lb.

4.3 P. 167

JUST LIKE 4.1
the pick-up truck.



FIND REACTION AT
EACH WHEEL.

$$\sum F_Y = 0 = -2100 - 900 + R_A + R_B$$

$$\sum M_A = 0 = -2100^{\#} (20'') + R_B (60'') - 900^{\#} (110'')$$

$$R_B = \frac{42,000^{\#} + 99,000^{\#}}{60''} = 2,350^{\#} = R_B$$

SUB. BACK INTO EQ. FOR $\sum F_Y = 0$

$$2100 + 900 = R_A + R_B$$

$$2100 + 900 - 2350 = R_A = 650^{\#}$$

FOR REACTION AT EACH WHEEL, $\div 2$

$\therefore R_A = 325^{\text{lb}}$ AT EACH REAR WHEEL

$R_B = 1,175^{\text{lb}}$ AT EACH FRONT WHEEL.