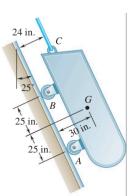
A loading car is at rest on a track forming an angle of 25° with the vertical. The gross weight of the car and its load is 5500 lb, and it acts at point G. Knowing the tension in the cable connected at C is 3000 lb, determine (a) the acceleration of the car, (b) the reaction at each pair of wheels.



$$\frac{(3000 | b - 5500 | b (-525) 32.2 + t/s_2}{5500 | b} = a$$

$$E_{K}^{r} = m a_{M_0}$$

 $R_A + R_B - 5500 \, lb \, sin \, 2s = 0$
 $R_A + R_B = 2324 \, lb$ $R_A = 2324 \, lb - R_B$

$$\leq M_{\varsigma} = I \times_{b_0} = 0$$

$$-50ih$$
 $R_{13} = 6ih 300016 - 25ih 232416$
- $50ih$ $R_{13} = -9 \times 10^4 16ih$

$$R_{B} = \frac{-4 \times 10^{4} \text{ lb in}}{-50 \text{ in}} = 802 \text{ lb} = R_{B}$$