



The table weighs roughly 100 lbs

$$\Sigma F_y = 0 \uparrow +$$

$$\frac{-4(100 \text{ lbs}) - 200(\downarrow)}{7} = F$$

$$F = 85.714$$

each leg should be weighted
by 85.714 lbs

7 points of contact
on the ground.

4, 100 lb contact to the
rail

and table should
support an additional
100 lbs