A 60-lb uniform thin panel is placed in a truck with end A resting on a rough horizontal surface and end B supported by a smooth vertical surface. Knowing that the panel remains in the position shown, determine (a) the maximum allowable acceleration of the truck, (b) the corresponding minimum required coefficient of static friction at end A.

R_B=0

$$EF_{x} = ma_{x}$$

$$EF_{x} = ma_{x}$$

$$EF_{y} = ma_{x}$$

$$EF_{x} = ma_{x}$$

$$EF_{y} = ma_{x}$$

$$EF_{x} = ma_{x}$$

$$F_{x} = 60 \text{ lb}$$

$$F_{x} = \frac{60 \text{ lb}}{32.247_{x}}$$

$$EF_{x} = \frac{60 \text{ lb}}{32.247_{x}}$$

$$EF_{x} = 34.7 \text{ lb}$$

$$EF_{x} = ma_{x}$$

$$F_{x} = \frac{60 \text{ lb}}{32.247_{x}}$$

347 1b = 6016 Mg

(1) 1b = 0.58= Ms