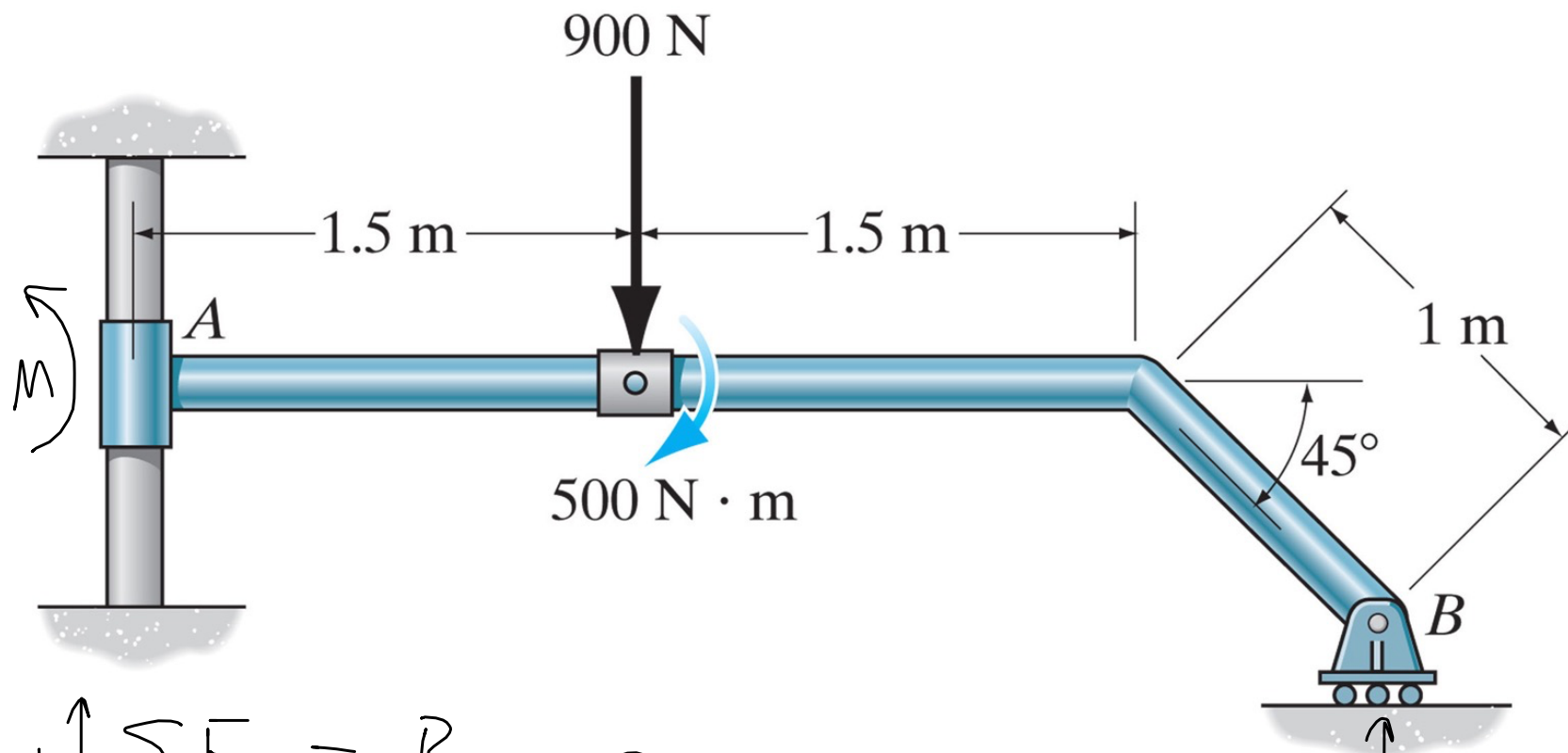


Later, from
 $\sum F_x + \sum F_y,$
 $A_x = 533 +$
 $A_y = \frac{1319.9}{\sqrt{2}}$

$$\sum M_A = \frac{F_{BD}}{\sqrt{2}} [0.2 + 0.1] - 400(0.7) = 0 \quad F_{BD} = 1319.9 \text{ N}$$

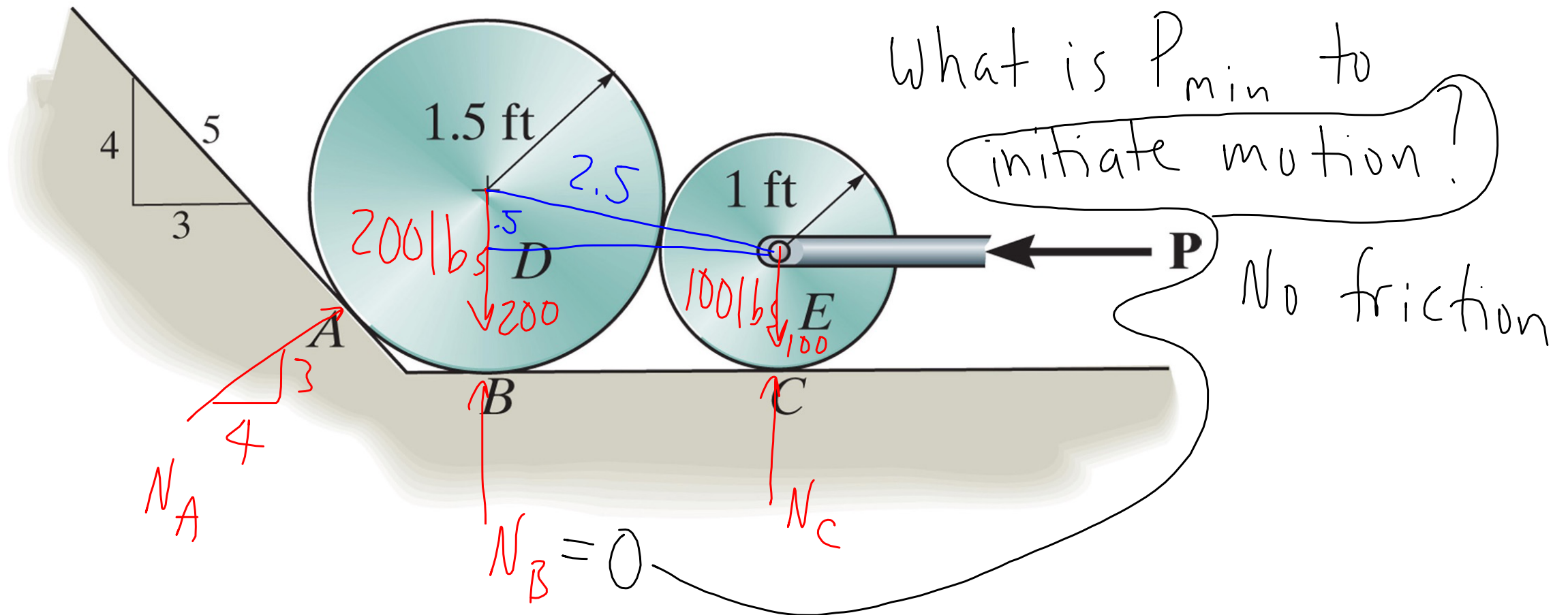


$$+\uparrow \sum F_y = B_y - 900 = 0$$

$$B_y = 900 \text{ N}$$

$$+\curvearrowright \sum M_A = M - 500 - 900(1.5) + 900 \left[3 + \frac{1}{\sqrt{2}} \right] = 0$$

$$M = -1486.4 \text{ N}\cdot\text{m}$$



$$\rightarrow \sum F_x = N_A \left(\frac{4}{5}\right) - P = 0 \quad \Rightarrow N_A = \frac{5}{4} P$$

$$\uparrow \sum F_y = N_A \left(\frac{3}{5}\right) - 200 - 100 + N_C = 0$$

$$N_C = 300 - N_A \left(\frac{3}{5}\right) = 300 - \frac{3}{4} P$$

$$\uparrow \sum M_D = N_c \sqrt{6} - 100\sqrt{6} - P(.5) = 0$$

$$(300 - \frac{3}{4}P)\sqrt{6} - 100\sqrt{6} - P(.5) = 0$$

$$P = 209.6 \text{ lbs} \quad N_c = 142.7 \text{ lbs}$$