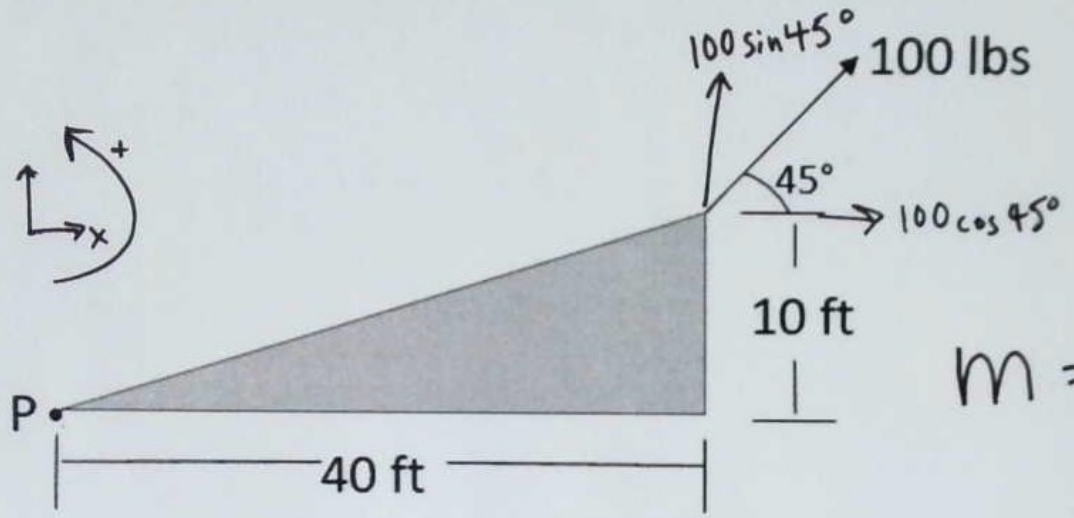
Calculate the moment of the 100 lb force shown below with respect to Point P.



SOHCAHTOA

$M = F * d$

$$M_P = (100 \sin 45^\circ)(40\,ft) - (100 \cos 45^\circ)(10\,ft)$$

lbs lbs

$$M_P = 2,121\ ft \cdot lbs$$