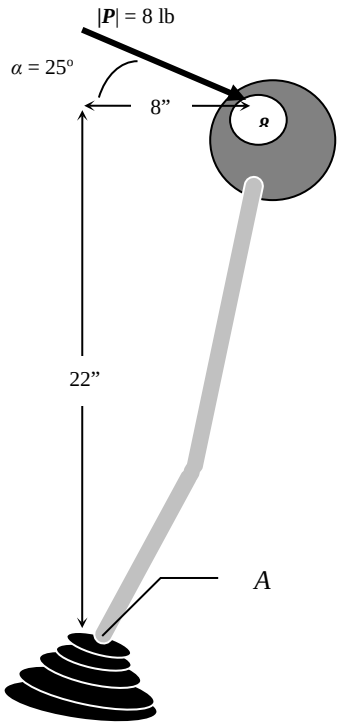
Example

A force of 8 lbs is applied to the gearshift as shown in the figure.

(a) Calculate the moment due to the applied force about pint *A* using the cross product **r**×**P**.
(b) Calculate the moment about point *A* by multiplying "perpendicular distance times force."
(c) Calculate the moment by breaking **P** into components.
(d) Which way was easiest, at least in this example?



Example

For the force shown,

(a) find the moment of force **P** about the origin, and
(b) about point *A*.