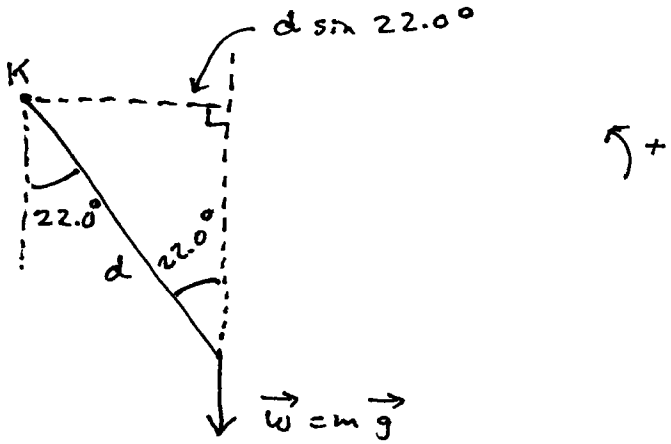
Exercise 9-11



τ due to $\vec{w}$, about K, is:

$$\tau = -(mg)(d \sin 22.0^\circ)$$
$$= -(12.0\ kg)(9.80\ m/s^2)(0.600\ m)\sin 22.0^\circ$$
$$= -26.4\ N \cdot m$$