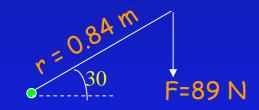
## **Torque Example and ACT**

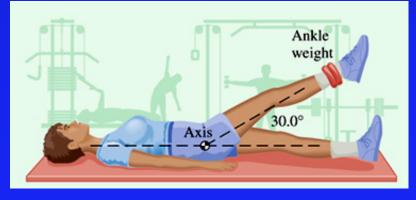
A person raises one leg to an angle of 30 degrees. An ankle weight (89 N) attached a distance of 0.84 m from her hip. What is the torque due to this weight?

1) Draw Diagram 2)  $\tau = F r \sin \theta$ = F r sin(90 - 30) = 65 N m



If she raises her leg higher, the torque due to the weight will

A) IncreaseB) SameC) Decrease



Physics 101: Lecture 14, Pg 11