

Torque Practice

$$d = 7 \text{ cm}$$

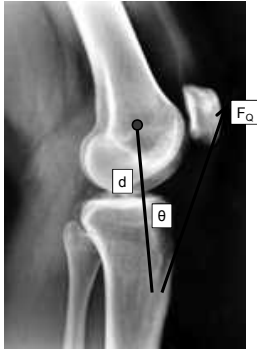
$$\theta = 30^\circ$$

$$F_O = 800 \text{ N}$$

$$F_C = 692$$

$$F_R = 400$$

$$T_O = 28 \text{ Nm}$$

Impulse Practice

A 0.060 kg tennis ball traveling at 10.0 m/s is returned by Venus Williams. If it leaves her racket with a speed of 36.0 m/s in the opposite direction from which it came, what is the change in momentum of the tennis ball? 2.76 kg·m/s

And, if the ball is in contact with the racket for 0.02 s, what is the average force with which Venus hit the ball? 138 N

