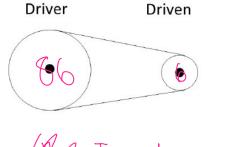
Name:		
Niama		
INGILIE:		

For the system of sprockets pictured, when driver sprocket = 86 cm, driven sprocket = 6 cm, and the output torque is 88 N-m, what is the input torque (precision of 0.01)?

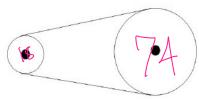


$$\frac{\sqrt{N_1}}{\sqrt{N_2}} = \frac{T_2}{T_1} = \frac{d_2}{d_1}$$

$$T_{i} = \frac{(88 \text{ m} \cdot 86 \text{ m})}{6 \text{ m}} = 1261.33 \text{ N} \cdot \text{n}$$

For the system of sprockets pictured, when driver sprocket = 18 cm, driven sprocket = 74 cm, and the <u>output torque</u> is 62 N-m, what is the input torque (precision of 0.01)?

Driver Driven



$$\frac{T_{i}}{T_{i}} = \frac{d_{i}}{d_{i}}$$

$$\frac{62}{T_1} = \frac{74}{18}$$

$$T_{i} = \frac{(18.62)}{74} = 15.08$$

Write ONLY answers below this line _____

SPRSet27

a: 1261.33

b: 15.08