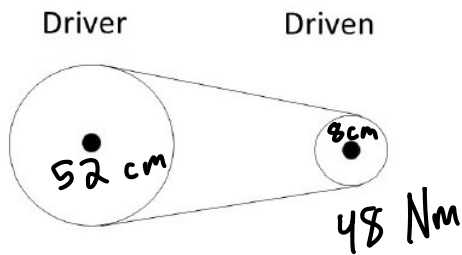


Name: Max Segundo

For the system of sprockets pictured, when driver sprocket = 52 cm, driven sprocket = 8 cm, and the output torque is 48 N-m, what is the input torque (precision of 0.01)?

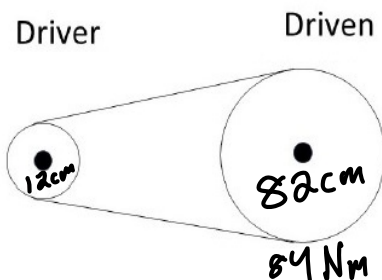


$$\frac{8}{52} = \frac{48}{x}$$

$$x = \frac{48 \times 52}{8}$$

$$x = 312$$

For the system of sprockets pictured, when driver sprocket = 12 cm, driven sprocket = 82 cm, and the output torque is 84 N-m, what is the input torque (precision of 0.01)?



$$\frac{82}{12} = \frac{84}{x}$$

$$84 \times 12 = 82 \times x$$

$$1008 = 82x$$

$$x = \frac{1008}{82}$$

$$x \approx 12.29$$

Write ONLY answers below this line _____

SPRSet22

a: 312.00

b: 12.29