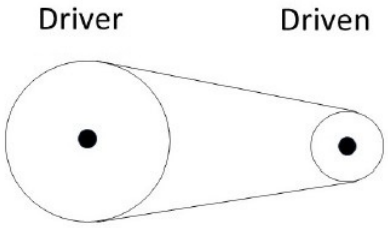
Name: Ray Dhillon

For the system of sprockets pictured, when driver sprocket = 64 cm, driven sprocket = 18 cm, and the output torque is 74 N-m, what is the input torque (precision of 0.01)?

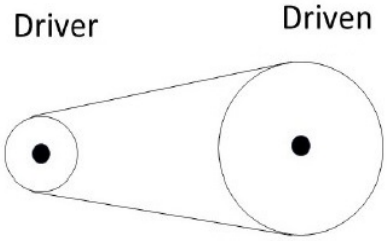


$$\frac{x}{74} = \frac{18}{64}$$

$$x = 74 \cdot \frac{64}{18}$$

$$x = 263.11$$

For the system of sprockets pictured, when driver sprocket = 12 cm, driven sprocket = 46 cm, and the output torque is 90 N-m, what is the input torque (precision of 0.01)?



$$\frac{x}{90} = \frac{46}{12}$$

$$x = 90 \cdot \frac{12}{46}$$

$$x = 23.48$$

Write ONLY answers below this line _____

SPRSet15

a: 263.11

b: 23.48