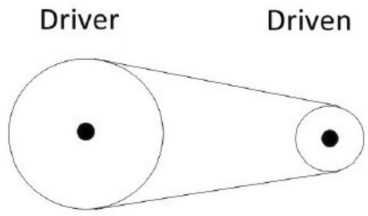
Name:_____

For the system of sprockets pictured, when driver sprocket = 74 cm, driven sprocket = 26 cm, and the output torque is 60 N-m, what is the input torque (precision of 0.01)?

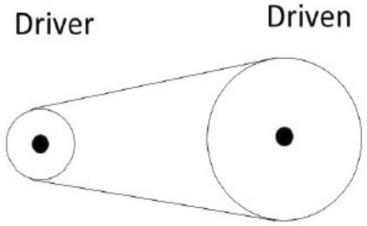


$\frac{74cm}{26cm} \quad \frac{60 N\cdot m}{x\ N\cdot m}$

$74x = 60(26)$

$x = 21.08$

For the system of sprockets pictured, when driver sprocket = 34 cm, driven sprocket = 54 cm, and the output torque is 72 N-m, what is the input torque (precision of 0.01)?



$\frac{54cm}{34cm} \quad \frac{72\ N\cdot m}{x\ N\cdot m}$

45.33

Write ONLY answers below this line _____

SPRSet17

a: 21.08

b: 45.33