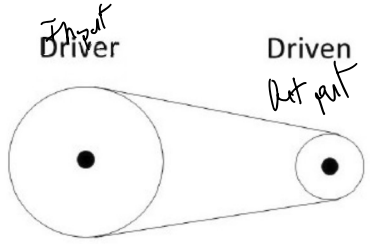
Name: Evan Buhrmann

For the system of sprockets pictured, when driver sprocket = 70 cm, driven sprocket = 22 cm, and the output torque is 84 N-m, what is the input torque (precision of 0.01)?



$f = \frac{22}{70}$

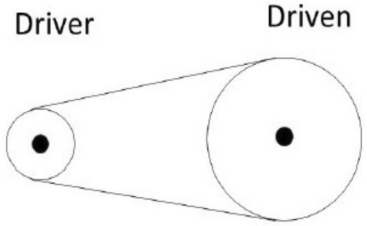
$t_{in} \cdot \frac{t_{out}}{t_{in}} = \frac{.314}{.314}$

$\frac{22}{70}$

$\frac{22}{70} = .314$

$\frac{84}{.314} = 267.52$

For the system of sprockets pictured, when driver sprocket = 18 cm, driven sprocket = 68 cm, and the output torque is 66 N-m, what is the input torque (precision of 0.01)?



$\frac{68}{18} = 3.78$

$\frac{66}{3.78} = 17.46$

Write ONLY answers below this line _____

SPRSet11

a: 267.52

b: 17.46

For the system of sprockets pictured, when driver sprocket = 18 cm, driven sprocket = 68 cm, and the output torque is 66 N-m, what is the input torque (precision of 0.01)?