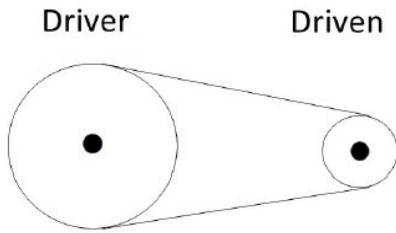


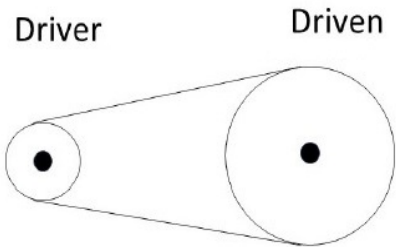
Name: Leela Prakash

For the system of sprockets pictured, when driver sprocket = 66 cm, driven sprocket = 32 cm, and the output torque is 56 N-m, what is the input torque (precision of 0.01)?



$$\frac{32}{66} = \frac{56}{x} = 115.50$$

For the system of sprockets pictured, when driver sprocket = 20 cm, driven sprocket = 54 cm, and the output torque is 116 N-m, what is the input torque (precision of 0.01)?



$$\frac{54}{20} = \frac{116}{x} = 42.96$$

Write ONLY answers below this line _____

SPRSet20

a: 115.50

b: 42.96