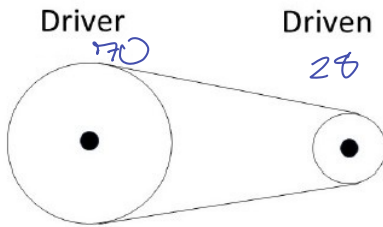


Name: Rhyan Bullard

For the system of sprockets pictured, when driver sprocket = 70 cm, driven sprocket = 28 cm, and the input speed is 82 rpm, what is the output speed (precision of 0.01)?



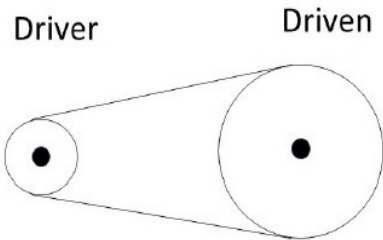
$$\text{Speed} = \frac{\text{driver}}{\text{driven}}$$

$$\frac{70}{28} = \frac{82}{x}$$

$$70x = 2,296$$

$$x = 32.80$$

For the system of sprockets pictured, when driver sprocket = 18 cm, driven sprocket = 46 cm, and the input speed is 40 rpm, what is the output speed (precision of 0.01)?



$$\frac{18}{46} = \frac{40}{x}$$

$$18x = 1840$$

$$x = 102.22$$

Write ONLY answers below this line \_\_\_\_\_

SPRSet52

a: 32.80

b: 102.22