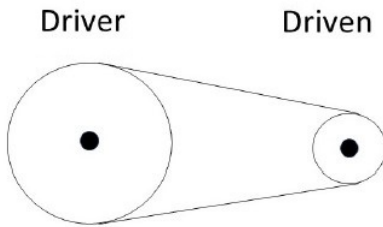


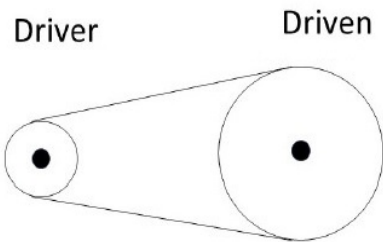
Name: Raj Dhillon

For the system of sprockets pictured, when driver sprocket = 72 cm, driven sprocket = 34 cm, and the input speed is 62 rpm, what is the output speed (precision of 0.01)?



$$\frac{\text{output speed}}{\text{Input Speed}} = \frac{D_{\text{driver}}}{D_{\text{driven}}}$$
$$62 \cdot \frac{x}{62} = \frac{72}{34} \cdot 62$$
$$x = 131.29$$

For the system of sprockets pictured, when driver sprocket = 14 cm, driven sprocket = 88 cm, and the input speed is 56 rpm, what is the output speed (precision of 0.01)?



$$56 \cdot \frac{x}{56} = \frac{14}{88} \cdot 56$$
$$x = 8.91$$

Write ONLY answers below this line _____

SPRSet55

a: 131.29

b: 8.91