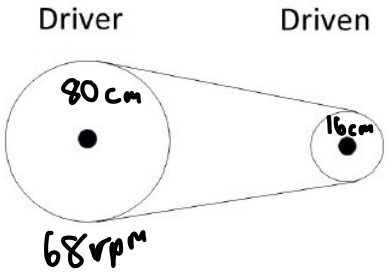
Name: Max Segundo

For the system of sprockets pictured, when driver sprocket = 80 cm, driven sprocket = 16 cm, and the input speed is 68 rpm, what is the output speed (precision of 0.01)?



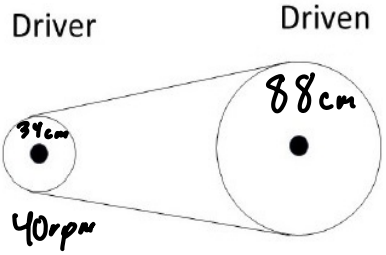
$$\frac{16}{80} = \frac{x}{68}$$

$$16 \times 68 = 80x$$

$$\frac{1088}{80} = x$$

$$x = 13.6$$

For the system of sprockets pictured, when driver sprocket = 34 cm, driven sprocket = 88 cm, and the input speed is 40 rpm, what is the output speed (precision of 0.01)?



$$\frac{88}{34} = \frac{x}{40}$$

$$88 \times 40 = 34x$$

$$\frac{3520}{34} = x$$

$$x \approx 103.53$$

Write ONLY answers below this line _____

SPRSet62

a: 13.60

b: 103.53