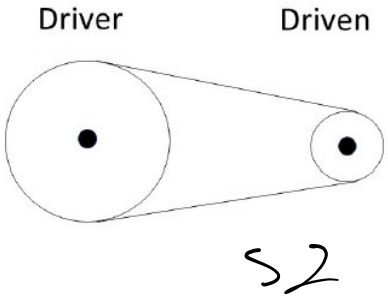
Name: Stefan

For the system of sprockets pictured, when driver sprocket = 52 cm, driven sprocket = 28 cm, and the output torque is 114 N-m, what is the input torque (precision of 0.01)?



52

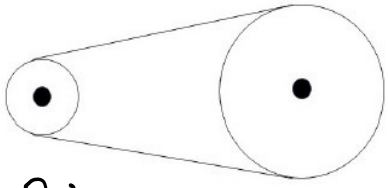
28 / 52 = .538

driven / driver X out torque

114 X 538

61.38

For the system of sprockets pictured, when driver sprocket = 28 cm, driven sprocket = 60 cm, and the output torque is 62 N-m, what is the input torque (precision of 0.01)?



28 60

60 / 28 = 2.14

62 X 2.14 = 132.86

Write ONLY answers below this line _____

SPRSet25

a: 61.38

b: 132.86