

Springs Hooke's Law F(x) = K.x # of Units constant stretched or compressed beyond natural length

A spring with natural length of (m requires a force of 8 N to stretch it 3 m. How much work to stretch it from 2 m to 4 m?

much work to she with
$$F = K \times W = \int_{3}^{3} \frac{8}{3} \times dx = \frac{32}{3} J$$

$$8 = K \cdot 3$$

$$8 = K$$

$$charter the form the form$$

