Elastic potential energy

1. A spring (k = 7.50 N/m) has been stretched 0.40 m from its equilibrium position. What is the potential energy now stored in the spring?

2. A spring (k = 800 N/m) has been compressed, and 196 J of potential energy is stored. What distance from equilibrium has the spring been compressed?

3. Calculate the spring constant of a spring that stores 100 J of energy when compressed 500cm.

4. A spring has 900 J of energy applied to it. It has a spring constant of 20N/m. Calculate the extension.

5. A spring has 900 J of energy applied to it. It has a spring constant of 20,000 N/m. Calculate the extension.

Elastic potential energy

1. A spring (k = 7.50 N/m) has been stretched 0.40 m from its equilibrium position. What is the potential energy now stored in the spring? (0.6 J)

2. A spring (k = 800 N/m) has been compressed, and 196 J of potential energy is stored. What distance from equilibrium has the spring been compressed? (0.700m)

3. Calculate the spring constant of a spring that stores 100 J of energy when compressed 500cm. (8 N/m)

4. A spring has 900 J of energy applied to it. It has a spring constant of 20N/m. Calculate the extension. (9.5m)

5. A spring has 900 J of energy applied to it. It has a spring constant of 20,000 N/m. Calculate the extension. (0.3m)