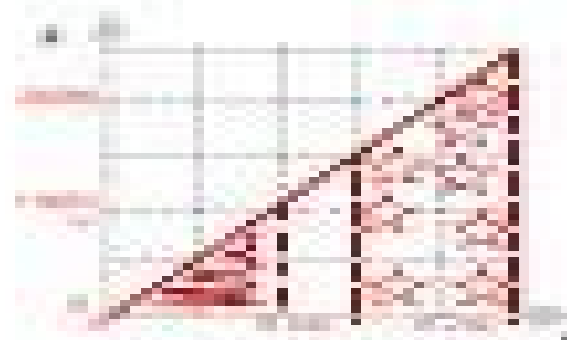


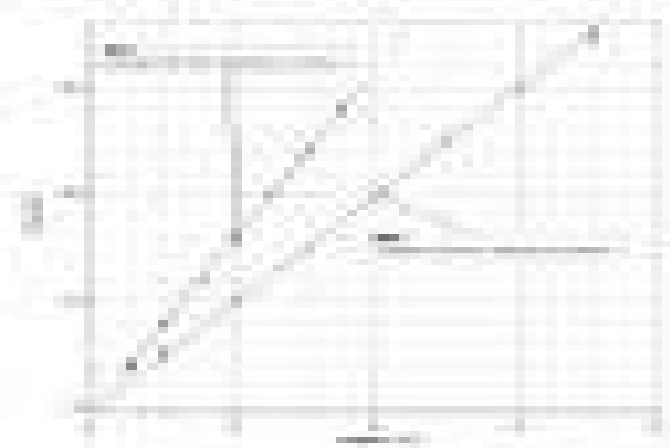
Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

Suppose that Hooke's Law is valid for a spring that obeys Hooke's Law. Graphically represent the force vs. displacement relation under the following assumptions (20 pts):



1. Graphically determine the amount of energy stored when stretching the spring constant value from 0 to 100 N/m. (20 pts)
The area under the line is shaded in red. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(10) = 500$ J.
2. Graphically determine the amount of energy stored when stretching the spring constant value from 0 to 10 N/m. (20 pts)
The area under the line is shaded in red. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(10)(1) = 5$ J.
3. Graphically determine the amount of energy stored when stretching the spring constant value from 0 to 100 N/m. (20 pts)
The area under the line is shaded in red. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(10) = 500$ J.
4. Graphically determine the amount of energy stored when stretching the spring constant value from 0 to 100 N/m. (20 pts)
The area under the line is shaded in red. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(10) = 500$ J.

Now graph force constant versus displacement showing the relationship between the two. The relationship is linear. The relationship is $F = kx$.



5. A constant force is applied to a spring. The spring constant is 100 N/m. The force is 100 N. The displacement is 1 m. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(1) = 50$ J.
6. A constant force is applied to a spring. The spring constant is 100 N/m. The force is 100 N. The displacement is 1 m. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(1) = 50$ J.
7. A constant force is applied to a spring. The spring constant is 100 N/m. The force is 100 N. The displacement is 1 m. The energy stored is $\frac{1}{2}Fx = \frac{1}{2}(100)(1) = 50$ J.
8. The work done by a spring is $W = \frac{1}{2}kx^2$. The spring constant is 100 N/m. The displacement is 1 m. The work done is $W = \frac{1}{2}(100)(1)^2 = 50$ J.
9. The work done by a spring is $W = \frac{1}{2}kx^2$. The spring constant is 100 N/m. The displacement is 1 m. The work done is $W = \frac{1}{2}(100)(1)^2 = 50$ J.
10. The work done by a spring is $W = \frac{1}{2}kx^2$. The spring constant is 100 N/m. The displacement is 1 m. The work done is $W = \frac{1}{2}(100)(1)^2 = 50$ J.
11. The work done by a spring is $W = \frac{1}{2}kx^2$. The spring constant is 100 N/m. The displacement is 1 m. The work done is $W = \frac{1}{2}(100)(1)^2 = 50$ J.
12. The work done by a spring is $W = \frac{1}{2}kx^2$. The spring constant is 100 N/m. The displacement is 1 m. The work done is $W = \frac{1}{2}(100)(1)^2 = 50$ J.

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