

Unit VI: Review

The following data were collected for two springs.



1. What are the spring constants of springs 1 and 2?

$k_1 = \frac{F_1}{x_1} = \frac{20 \text{ N}}{100 \text{ cm}} = 0.2 \text{ N/cm}$
 $k_2 = \frac{F_2}{x_2} = \frac{10 \text{ N}}{100 \text{ cm}} = 0.1 \text{ N/cm}$

2. How much energy is stored using a displacement of spring 2 from its rest position to 40 cm?

$U = \frac{1}{2} k x^2$
 $U = \frac{1}{2} (0.1 \text{ N/cm}) (40 \text{ cm})^2$
 $U = 0.8 \text{ J}$

3. How much additional energy is stored if spring 2 is displaced from 40 cm to 60 cm?

$U = \frac{1}{2} k x^2$
 $U = \frac{1}{2} (0.1 \text{ N/cm}) (60 \text{ cm})^2$
 $U = 1.8 \text{ J}$

4. A 1000 kg car is accelerated from rest to 30 m/s.

a. How much energy is transferred to the car during this acceleration?

$U = \frac{1}{2} m v^2$
 $U = \frac{1}{2} (1000 \text{ kg}) (30 \text{ m/s})^2$
 $U = 450,000 \text{ J}$

b. What net work is done on the car by the engine during this acceleration?

$W = \Delta U$
 $W = 450,000 \text{ J} - 0 \text{ J}$
 $W = 450,000 \text{ J}$

Physics Unit 7 Review Answers

Michael Reid



Physics Unit 7 Review Answers:

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