

**AP<sup>®</sup> PHYSICS C - MECHANICS  
2014 SCORING GUIDELINES**

**Question 1**

**15 points total**

**Distribution  
of points**

(a) 2 points

For using a correct expression for the potential energy of a spring expressed as the integral of the force

1 point

$$U_s = \int F(x) dx$$

$$U_s = \int_0^x (Ax^2 + Bx) dx$$

Evaluate the definite integral to get an answer with the correct magnitude.

$$U_s = \left[ \frac{1}{3} Ax^3 + \frac{1}{2} Bx^2 \right]_0^x$$

For any correct answer with a local minimum at  $x = 0$

1 point

$$U_s = \frac{1}{3} Ax^3 + \frac{1}{2} Bx^2$$

Note: Full credit is given for any consistent use of sign, since the guidelines are concerned with the magnitude. Full credit is also given if there is a constant term added to the correct expression.

(b)  
i. 3 points

For any statement of conservation of mechanical energy

1 point

$$U_s = K$$

For using the expression for potential energy from part (a) and a correct expression for kinetic energy

1 point

$$\frac{1}{3} Ax^3 + \frac{1}{2} Bx^2 = \frac{1}{2} mv^2$$

Solve for  $v^2$

$$v^2 = 2 \left( \frac{1}{3} Ax^3 + \frac{1}{2} Bx^2 \right) / m$$

For correct substitution

1 point

$$v^2 = 2 \left( \left( \frac{1}{3} \right) (200 \text{ N/m}^2) (0.040 \text{ m})^3 + \left( \frac{1}{2} \right) (150 \text{ N/m}) (0.040 \text{ m})^2 \right) / (0.30 \text{ kg})$$

$$v^2 = 0.828 \text{ m}^2/\text{s}^2$$

$$v = 0.91 \text{ m/s}$$

# Physics B 2014 Scoring Guidelines

**JR Anderson**



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