

**AP<sup>®</sup> PHYSICS B  
2006 SCORING GUIDELINES**

**Question 5**

**10 points total**

**Distribution  
of points**

(a)

(i) 2 points

From the ideal gas law

$$PV = nRT$$

For recognizing that  $\frac{PV}{T}$  is constant throughout the cycle

1 point

Using the fact that pressure is the same for states 1 and 2

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$T_2 = \frac{V_2 T_1}{V_1}$$

For substituting correct values into a correct expression

1 point

$$T_2 = (0.50 \text{ m}^3)(373 \text{ K}) / (0.25 \text{ m}^3)$$

$$T_2 = 746 \text{ K}$$

*Note: Some students earned the first point by correctly calculating the value of  $n$  or the product  $nR$  using the given conditions in state 1. The student could have then proceeded to the correct substitutions in both parts (i) and (ii).*

(ii) 1 point

Using the fact that volume is the same for states 1 and 3

$$\frac{P_1}{T_1} = \frac{P_3}{T_3}$$

$$T_3 = \frac{P_3 T_1}{P_1}$$

For substituting correct values into a correct expression

1 point

$$T_3 = (1.5 \times 10^5 \text{ Pa})(373 \text{ K}) / (1.0 \times 10^5 \text{ Pa})$$

$$T_3 = 560 \text{ K}$$

# Physics B 199response Scoring Guidelines

**Raffaela Di Napoli**



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