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1. Which temperature change would cause a sample of an ideal gas to double in volume while the pressure is held constant?
- A) from 400. K to 200. K  
B) from 200. K to 400. K  
C) from 400.°C to 200.°C  
D) from 200.°C to 400.°C
2. As the temperature of a given sample of a gas decreases at constant pressure, the volume of the gas
- A) decreases                      B) increases  
C) remains the same
3. The volume of a sample of a gas at 273°C is 200. liters. If the volume is decreased to 100. liters at constant pressure, what will be the new temperature of the gas?
- A) 0 K                                  B) 100. K  
C) 273 K                                D) 546 K
4. A sample of oxygen gas has a volume of 150. milliliters at 300 K. If the pressure of the sample is held constant and the temperature is raised to 600 K, the new volume of the sample will be
- A) 75.0 ml                              B) 150. ml  
C) 300. ml                                D) 600. ml
5. A sample of a gas occupies 6.00 liters at a temperature of 200. K. If the pressure remains constant and the temperature is raised to 600. K, the volume of the gas sample would be
- A) 18.0 L                                B) 2.00 L  
C) 3.00 L                                D) 12.0 L
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