Thermodynamics
Absolute Zero

Circle the best answer.

1. Which of these describes a gas at absolute zero? (PH3c)
   a. Pressure = 0
   b. Temperature = -273 C
   c. Both of the above
   d. None of the above

2. For a constant volume, what is the relationship between temperature and pressure? (IE1a)
   a. As temperature increases pressure increases
   b. As temperature increases pressure decreases
   c. The two quantities are totally unrelated
   d. More information is necessary to answer the question

3. When graphing temperature and pressure, while volume is held constant, which of these describes the shape of the graph? (IE1a)
   a. Straight line
   b. Parabola
   c. Exponential
   d. None of these

4. Which of the following defines absolute zero? (PH3c)
   a. Temperature at which particles no longer collide
   b. Temperature at which particles have no kinetic energy
   c. Temperature at which particles cease to exist
   d. International Falls Minnesota in January