Chem 1: Gay-Lussac's Law Worksheet

1. Write the equation for Gay Lussac's Law. Define the symbols used.

2. What two gas law variables are constant in Gay-Lussac's Law?

3. A rigid container has an initial pressure of 1.50 atm at 21°C.   What will the pressure be if the temperature is increased to 121°C?

4. The pressure inside a container is 770 mmHg at a temperature of 57°C. What would the pressure be at 75°C?

5. A rigid container is at a temperature of 112°C.   When heated to 224°C, the pressure was 288 kPa. What was the initial pressure?

6. Use Gay-Lussac's Law to explain why you should never throw a pressurized aerosol container into a fire. A fire's temperature is approximately 400°C.