Absolute Zero HW

Temperature Conversion Practice
*Convert the following temperatures as directed.

1. 10.0°C = _____ Kelvin
2. 323 K = _____ °C
3. 367 K = _____ °C
4. 200 °C = _____ K
5. 283 °C = _____ K

Charles' Law Practice Problems
Remember…all temperatures must be converted to Kelvin!!!

1. Calculate the decrease in temperature when 2.00 L of a gas at 20.0°C is compressed to 1.00 L.

2. A sample of air occupies 600.0 mL at 20.0°C. What is the volume of the air at 60.0°C?

3. A gas occupies 900.0 mL at a temperature of 27.0°C. What is the volume of the gas at 132.0°C?

4. You measure 300.0 mL of a gas at 17.0°C. What is its volume at 10.0°C?

5. At 27.00°C a gas has a volume of 6.00 L. What will the volume be at 150.0°C?