Gas Laws Worksheet #1

Во	yle's Law describes the relationship between	and	, and they are
_	proportional. The variables	_and	remain constant.
1)	If 50 mL of Oxygen gas is compressed from 20 atm of at constant temperature?	pressure to 40 at	m of pressure, what is the new volume
2)	If a gas sample in a balloon had a volume of 100 mL a pressure of 10 atm, what would be its volume?	and a pressure of	3 atm. It was then compressed to a
Ch	arles Law describes the relationship between	and	, and they are
pro	pportional. The variables and	_ remain consta	nt.
1)	A gas occupies a volume of 100 mL at 300 K. At what	t temperature will	the gas have a volume of 200 mL?
2)	If the volume of a gas sample is 500 mL at 25° C what	will be its volume	at 50° C?
Ga	y-Lussac's Law describes the relationship between	a	nd, and they are
	proportional. The variables	and	remain constant.
1)	10.0 L of a gas is found to exert 97.0 kPa at 25.0° C. pressure to standard pressure?	What would be th	e required temperature to change the
2)	5.00 L of a gas is collected at 22.0 $^{\circ}$ C and 745.0 mmH the new pressure?	lg. When the tem	perature is changed to standard what is