

Boyle's Law Problems

Name:

Correct the volumes of the following gases, based upon the indicated pressure changes. Show your work to receive credit.

1. 338 cm^3 of a gas goes from a pressure of 0.850 atm to 1.03 atm.
2. 0.873 cm^3 of a gas goes from a pressure of 0.931 atm to 1.01 atm.
3. 35.1 L of a gas goes from a pressure of 733 mmHg to 617 mmHg.
4. 5.24 m^3 of a gas goes from a pressure of 825 mmHg to 784 mmHg.
5. 171 cm^3 of a gas goes from a pressure of 122.5 kPa to 104.3 kPa.
6. 16.7 L of a gas goes from a pressure of 101.3 kPa to 107.4 kPa.
7. 13.3 cm^3 of a gas goes from a pressure of 1013 mbar to 1600.0 mbar.
8. 150.0 L of a gas goes from a pressure of 1400.0 mbar to 1350 mbar.