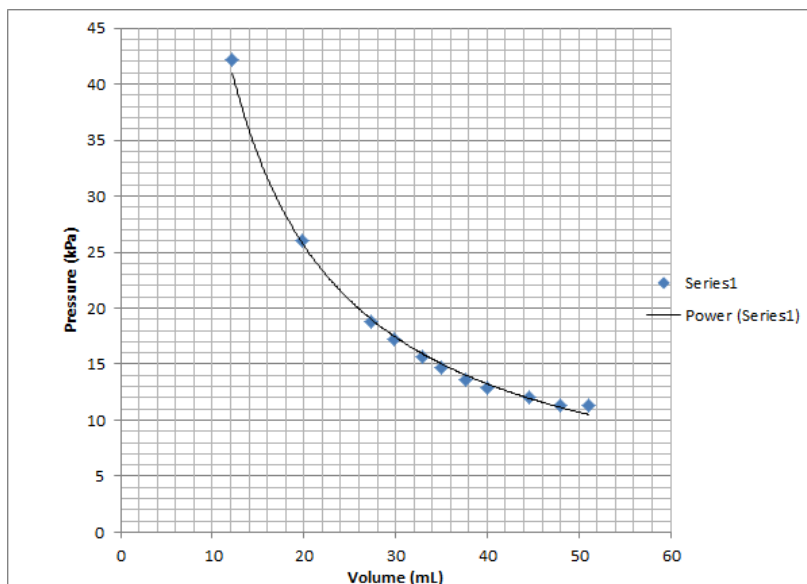


Review sheet for Fluids, Gas and Pressure quiz

- 1) What is the formula for Pressure?
- 2) What is the Si unit for pressure?
- 3) If you weigh yourself in pounds and measure an area where you're standing in inches, what will be the unit of pressure for this calculation?
- 4) What is the pressure of an Aluminum block with a length of 3.4m and a width of 1.5m and a weight of 673N?
- 5) What is the area of a slab of concrete that exerts a Force of 2400N and a Pressure of 1500Pa on a sidewalk?
- 6) How much Force is exerted by a person pushing a sled of wood with a Pressure of 15000Pa on an area of 30m²?
- 7) How many Pa are in 6.5kPa?
- 8) At a constant temperature, if the volume of a gas decreases, its pressure:
- 9) At constant pressure, if the temperature of a gas is increased, the volume:



10) What law does this graph show?

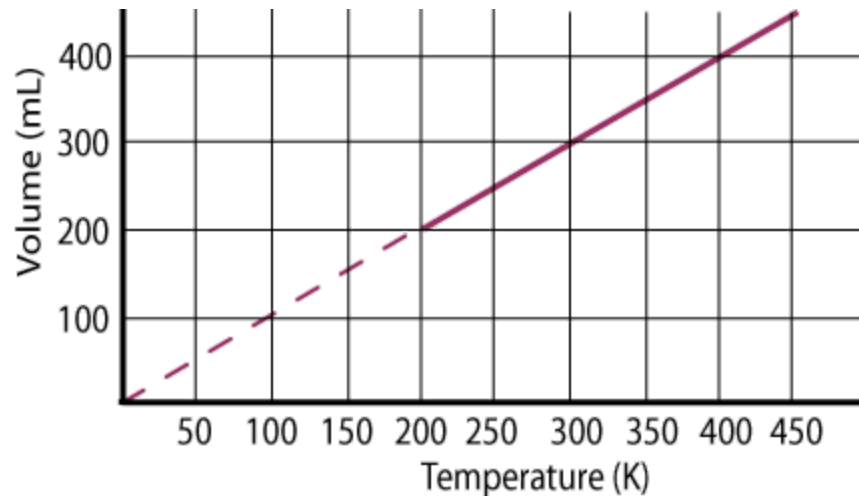
11) What is the relationship shown in the graph?

12) What is the pressure of this gas when the volume is 42mL?

13) If the Pressure of this gas 30kPa, what would its volume be?

14) Predict the volume of the gas when its Pressure is 10 kPa.

15) Use Charles's Law to explain what happens if you heated up the gas inside a balloon.



16) What type of relationship does the graph indicate about gases?

17) According to Archimedes principle, if a mass is floating the amount of water displaced will be equal to:

18) Explain what a buoyant force is.

19) If you step into the ocean, what happens to the water level?

20) What law actually describes this phenomena?

21) What causes a plane to lift off the ground?

22) Fast moving fluids have _____ pressure than slower moving fluids.

23) The best way to avoid falling through thin ice is to...