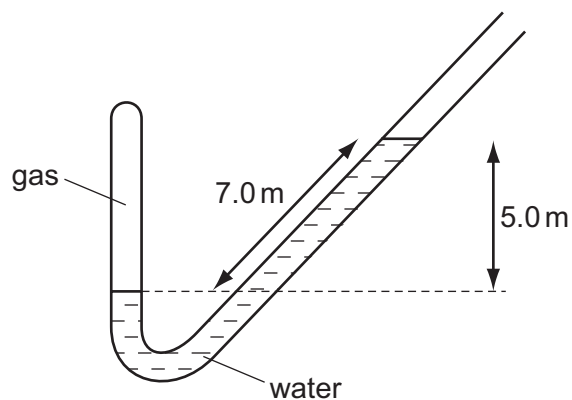


23 A pipe is closed at one end and contains gas, trapped by a column of water.



The atmospheric pressure is 1.0×10^5 Pa. The density of water is 1000 kg m^{-3} .

What is the pressure of the gas? (Use $g = 10 \text{ m s}^{-2}$.)

- A** 0.3×10^5 Pa
- B** 0.5×10^5 Pa
- C** 1.5×10^5 Pa
- D** 1.7×10^5 Pa

Space for working