Checking a Gas Outside the Ideal Model

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (3)

The reference product is 80 × 3 = 240. At volume 2 the ideal pressure is 240/2 = 120.

Question 2

The ideal pressure is 240/1 = 240. The last measured value of 270 is 30 units higher.

Question 3

At volume 2, 110 is below 120, consistent with attraction lowering pressure. At volume 1, 270 is above 240, consistent with finite size raising pressure. Each comparison identifies the direction of the net effect.

Question 4

Select Refutes the claim. The simulator reports a fixed count. Also, losing gas at the same temperature and volume would lower the ideal comparison pressure, while the last pressure is above it.