

Q2: The following data have been observed for 800 mg of nitrogen gas at 273 K. Calculate the best value of the

0.200

7.0

(25 points)

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0.500

4.5

Q3: A perfect gas undergoes isothermal compression, which reduces its volume by 1.80 dm³. The pf and Vf of

the gas are 2×10^2 kPa and 2.14 dm³, respectively. Calculate the p_{original} of the gas in (i) bar, (ii) torr. (25 points)

Best wishes

p/105 Pa

V/dm3

0.750

3.0

molar mass of N2.

Wed_10/11/2021

PVsm AT Vus 30 dm3 s 3L Mos Rath VCK) XM 3/mill Rather TK Mr. 52x14528 m; 0.74x3x28 = 2779/ml 2) 281.43 3 2 NO ANSWER Why?