

Q3: A perfect gas undergoes isothermal compression, which reduces its volume by 1.80 dm<sup>3</sup>. The  $p_f$  and  $V_f$  of the gas are 2 × 10<sup>2</sup> kPa and 2.14 dm<sup>3</sup>, respectively. Calculate the  $p_{original}$  of the gas in (i) bar, (ii) torr. (25 points)

Thur 11/11/2021

**Best wishes** 

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