13 The density of helium at 150 kPa is 0.178 kg m^{-3}. What is the root-mean-square speed of its particles?

A 130 m s^{-1} **B** 232 m s^{-1} **C** 1300 m s^{-1} **D** 1600 m s^{-1}

14 An ideal gas goes through the thermodynamic cycle EFGHE as shown