10 The escape speed of a nitrogen molecule at the Earth's surface is 1.1×10^4 m s^{-1}.

What is the escape speed at a height of 2 R_E above the Earth's surface, where R_E is the radius of the Earth?

A 6.4×10^3 m s^{-1} **B** 7.8×10^3 m s^{-1} **C** 1.6×10^4 m s^{-1} **D** 1.9×10^4 m s^{-1}