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Dowling The final integral over ϕ is: $\int_0^{2\pi} d\phi = 2\pi$, so the standard
deviations of molecular speed are $\sqrt{\frac{2}{3}} \sqrt{k_B T/m} = \sqrt{\frac{2}{3}} \sqrt{2} = \sqrt{\frac{4}{3}}$
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13 The Maxwell Probability Distribution, $F(v) = F(v_1, v_2, v_3)$,
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With Average Velocity U Is Given By (11) A) Verify That U Is
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