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$\left. \left(\frac{1}{2a^2} \right) \right\} \text{right} \} \} \text{aligned} \} \} \} \text{With the Darwin-Fowler method of mean values, the Maxwell-Boltzmann distribution is obtained as an exact result. Simulation of a 2D gas relaxing towards a Maxwell-Boltzmann speed distribution For particles confined to move in a plane, the speed distribution is given by } P(s < | v | < s + ds) = \frac{m s k_B}{T} \exp \left(- \frac{m s^2}{2 k_B T} \right) ds \{ \displaystyle P(s$