Information for the Quiz on Ch. 1

Fundamental Concepts

Things you must know:
   (1) Definition of average velocity (and the position update formula)
   (2) Definition of momentum

\[ \gamma = \frac{1}{\sqrt{1 - \left( \frac{|\mathbf{V}|}{c} \right)^2}} \]

Specific Results

Physical Constants

\[ c = 3 \times 10^8 \text{ m/s} \]
\[ m_{\text{proton}} = 1.7 \times 10^{-27} \text{ kg} \]
\[ m_{\text{electron}} = 9 \times 10^{-31} \text{ kg} \]