Module 1 - Motion in 1-D

Keywords: dot motion diagram, position/velocity/acceleration vs. time.

Formulas:

$$V_{\text{aug}} = \frac{V_i + V_c}{z}$$

$$V_f^2 = V_{i+1}^2 + 2a \Delta x$$

Key points:

· Velocity is the slope of position vs. time graph

· Acceleration is the slope of velocity vs. time graph

· Area under velocity graph is displacement

· Area under acceleration graph is change in velocity

· Displacement & distance traveled

General approach:

· Try to imagine what is happening in your mind

· Sanify check your answer