Displacement
Graphs
Speed and Velocity
Quiz
Displacement

- $\Delta x = x - x_0$ Position displacement
  - Can be positive or negative
- $\Delta t = t - t_0$ Time Displacement
Graphs of displacement vs time

- Stationary object

- Object moving with constant speed

- Object whose speed is increasing or decreasing with time
Speed

- Average Speed

- Instantaneous Speed
Velocity

- Average Velocity

- Instantaneous Velocity
Q1 - Answer = c

Q2 - Problem A - Last name A-K

A foot = 12 inches and 1 in = 2.54 cm. How many cm\(^2\) in a square area 1 foot on a side?

- a) 144
- b) 30.5
- c) 929
- d) 6.45
- e) 366
Q1 - Answer = c
Q2 - Problem B - Last Name L-Z

A square area 1 mile on a side contains 640 acres. Recalling that 1 mile = 16 km and 1 km = 10^3 m, how many m^2 in an acre?

- a) 4,000
- b) 2.5
- c) 610
- d) 25
- e) 2,560