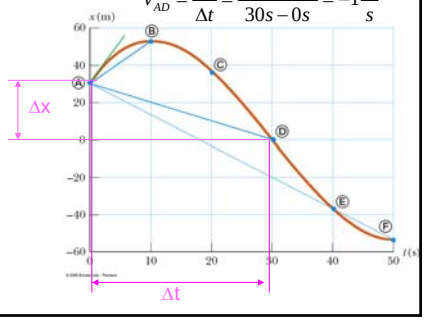
Clicker Quiz 1

What is the average velocity between points A and D on the graph shown?

$$\bar{v}_{AD} = \frac{\Delta x}{\Delta t} = \frac{0m - 30m}{30s - 0s} = -1\frac{m}{s}$$



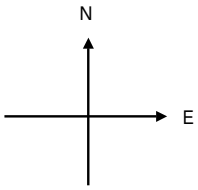
A. 1 m/s
✓ B. -1 m/s
C. 2 m/s
D. -2 m/s
E. 3 m/s

Runner A is running with a constant velocity of 6.0 mi/h due east. Runner B is running with a constant velocity of 5.0 mi/h due west.

Clicker Quiz 3-2

What are the velocities of runner A and runner B respectively, if vectors point right are positive and vectors pointing left are negative?

A. +6 mph and +5 mph
B. -6 mph and +5 mph
✓ C. 6 mph and -5 mph
D. -6 mph and -5 mph
E. Not enough information



Runner A is initially 4.0 mi west of a flagpole and is running with a constant velocity of 6.0 mi/h due east. Runner B is initially 3.0 mi east of the flagpole and is running with a constant velocity of 5.0 mi/h due west. How far are the runners from the flagpole when they meet?

Clicker Quiz 3-3

If both runners start at the same time and meet at point x and runner A takes time t_A to reach point x and runner B takes time t_B to reach the same point x, then:

1. $t_A > t_B$
✓ 2. $t_A = t_B$
3. $t_A < t_B$
4. $t_A = 1$ s
5. Not enough information

Runner A is initially 4.0 mi west of a flagpole and is running with a constant velocity of 6.0 mi/h due east. Runner B is initially 3.0 mi east of the flagpole and is running with a constant velocity of 5.0 mi/h due west. How far are the runners from the flagpole when they meet?

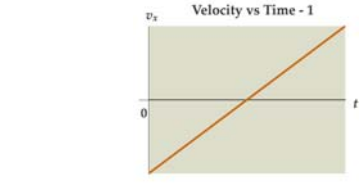
Clicker Quiz 3-4

If both runners start at the same time and meet at point x, then runner A travels a distance d_A and runner B travels a distance d_B.

✓ 1. $d_A > d_B$
2. $d_A = d_B$
3. $d_A < d_B$
4. $d_A = 1$ m
5. Not enough information

Clicker question

Match the velocity graph with acceleration graphs at the bottom that best describe the motion

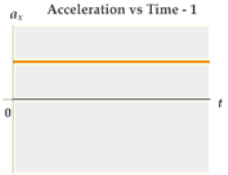


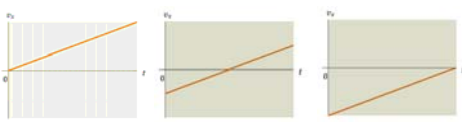
All of the above

A B ✓ C D

Clicker question

Match the acceleration graph with velocity graphs at the bottom that best describe the motion





All of the above

A B C ✓ D