Monday Reading Assessment: Unit 1, Acceleration and Kinematics

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September 7, 2021

1 Chapter 2 - Kinematics

1.	Plus and minus signs are used in one-dimensional motion to indicate direction. What is the sign of an acceleration that reduces the magnitude of a negative velocity? Of a positive velocity?
2	What is the acceleration of a rock thrown straight upward on the way up? At the top of its flight? On the way
۷.	down?

- 3. Which of the following is true of a rock thrown straight upwards that is being accelerated downwards by gravity?
 - A: The vertical displacement versus time is a quadratic curve with a peak at the maximum height.
 - B: The vertical displacement versus time is a linear line.
 - C: The vertical displacement versus time is a flat line.
 - D: The vertical displacement versus time is a quadratic curve with a valley at the minimum height.
- 4. Which of the following is true of a car that is decelerating because the driver is pressing the brake pedal?
 - A: The horizontal velocity versus time is a quadratic curve with a peak at the maximum height.
 - B: The horizontal velocity versus time is a linear line with negative slope.
 - C: The horizontal velocity versus time is a linear line with positive slope.
 - D: The horizontal velocity versus time is a quadratic curve with a valley at the minimum height.