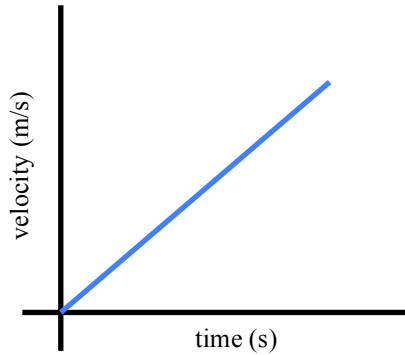# flipping physics

Flipping Physics Lecture Notes:
Walking Position, Velocity and Acceleration as a Function of Time Graphs

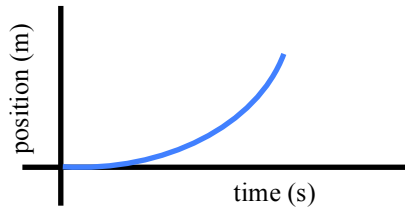$$slope = m = \frac{rise}{run} = \frac{\Delta y}{\Delta x} = \frac{\Delta velocity}{\Delta time} = acceleration$$

The slope of a velocity versus time graph is acceleration.
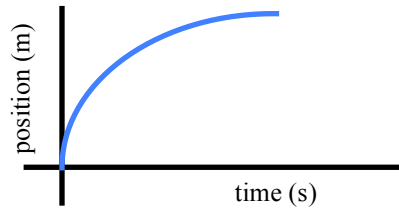
(review: The slope of a position versus time graph is velocity.)

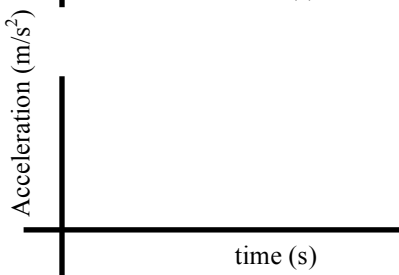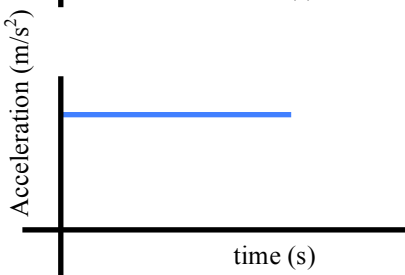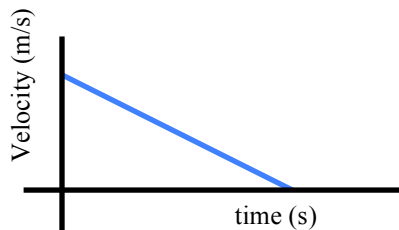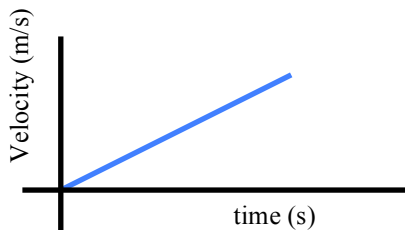A tangent line is a straight line that touches a curve at a point but does not cross the curve.

Example #1

Example #2

Example #4

Example #3

position (m)

time (s)

Velocity (m/s)

time (s)

Acceleration (m/s^2)

time (s)