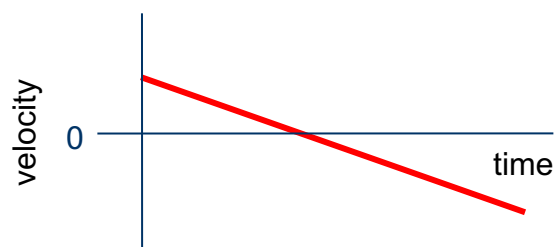
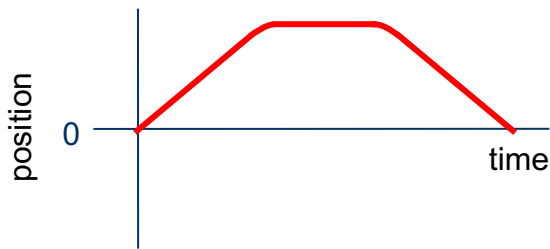

Worksheet 3: Graphs of Motion

1. In the following scenarios, the motion of an object is to be described in four ways: (i) in words, (ii) as a position-time graph, (iii) as a velocity-time graph, and (iv) as an acceleration-time graph. In each case, only one description is given. Construct the other three. (You may need to assume some initial conditions.) For additional fun, think of mathematical expressions that would describe the position, velocity, and acceleration.



A coconut hangs motionless from
its tree, then drops with increasing
downward speed until it lands on
the ground, quickly coming to rest.

