Lesson 1.5 – Rectilinear Motion

- 1. An ant is walking along a wire with velocity v(t) = 2 in/s on the time interval [0, 2],
 - v(t) = -t + 4 in/s on the time interval [2, 5], and v(t) = -1 in/s on the time interval [5, 7].
 - (a) Sketch the graph of the ant's velocity on the interval [0, 7].
 - (b) Use geometry to find the ant's displacement on the interval [0, 7].
 - (c) Use geometry to find the total distance traveled on the interval [0, 7].