## Exercise 65

Nick starts jogging and runs faster and faster for 3 mintues, then he walks for 5 minutes. He stops at an intersection for 2 minutes, runs fairly quickly for 5 minutes, then walks for 4 minutes.
(a) Sketch a possible graph of the distance $s$ Nick has covered after $t$ minutes.
(b) Sketch a graph of $d s / d t$.
[TYPO: Replace "mintues" with "minutes."]

## Solution

Below is a possible graph of Nick's total distance as a function of $t$.


Below is a graph of Nick's speed as a function of $t$.


