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Exercise 65

Nick starts jogging and runs faster and faster for 3 minutes, 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 ds/dt.

[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.

