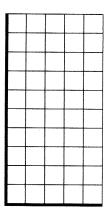
8. Sketch the graphs of the two functions v(t) and s(t) of exercise 7 above.



- a. Shade the region bounded the horizontal axis, the t-axis, the graph of v(t) and the vertical line t=3.
- b. Find the area of that shaded region.
- c. Evaluate s(3).
- 9. Tom recently took a long ride on his bike. He was able to ride for 4 hours at a constant speed of 15 mph. Define Tom's velocity function v(t). Sketch a graph of that function.

Specify a distance function s(t) for Tom's ride. Evaluate s(0), s(1), s(2), s(3), and s(4). How far did Tom ride between the end of hours 1 and 3?