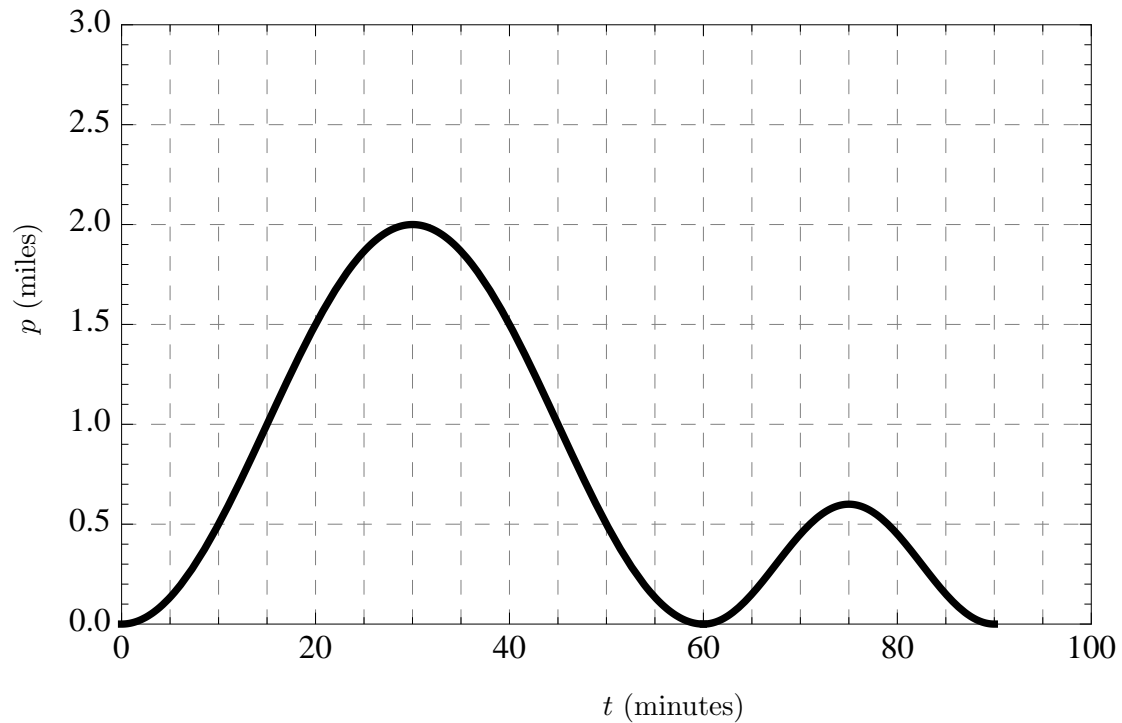


8. [9 points] The graph below shows a runner's distance, p , in miles from her starting point t minutes after she began to run.



Using the graph, estimate the following.

- a. [3 points] All times during her run where her velocity was zero.

$t =$ _____

- b. [2 points] Her average velocity over the first 45 minutes of her run.

velocity = _____

- c. [2 points] Her average speed over the first 45 minutes of her run.

speed = _____

- d. [2 points] Her velocity 80 minutes after she began running.

velocity = _____