

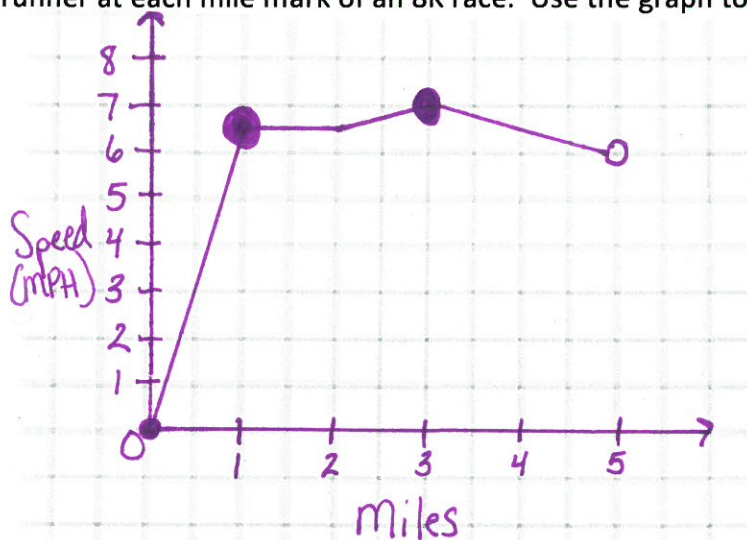
MAT 181
Graphical Analysis Case Study A

Name _____

Section _____

Major _____

Scenario: Running is a popular type of exercise and people train for races often. The graph shows the speed of a runner at each mile mark of an 8K race. Use the graph to answer the questions below.



1. Identify the 2 function values at the indicated points(black dots) and list them as coordinates.
2. What is the domain of the graph? Use proper interval notation.
3. What is the range of the graph? Use proper interval notation.
4. List the increasing interval(s).
5. List the decreasing interval(s).

6. Name the relative maxima.

7. Name the relative minima.

8. Name the x-intercept(s).

9. Name the y-intercept(s).

10. Can you make a prediction for the future from this graph? Explain why or why not?