MTH 103A Quiz 1 (A2)

Name: _____   **Section:** _____

INSTRUCTIONS

- Write your name and section number on this first page.

- Without fully opening the exam, check that you have pages 1 through 4.

- Show all your work. If no work is shown, the highest possible score is 1.

- Write your answers clearly! Include enough steps for the grader to be able to follow your work.

- Do first all of the problems you know how to do immediately. Do not spend too much time on any particular problem.

- You will be given exactly 20 minutes for this exam.

ACADEMIC HONESTY

- Do not open the exam booklet until you are instructed to do so.

- Do not seek or obtain any kind of help from anyone to answer questions on this exam.

- Books, notes, phones, or any electronic device other than an approved calculator are not allowed.

- Anyone who violates these instructions will have committed an act of academic dishonesty.
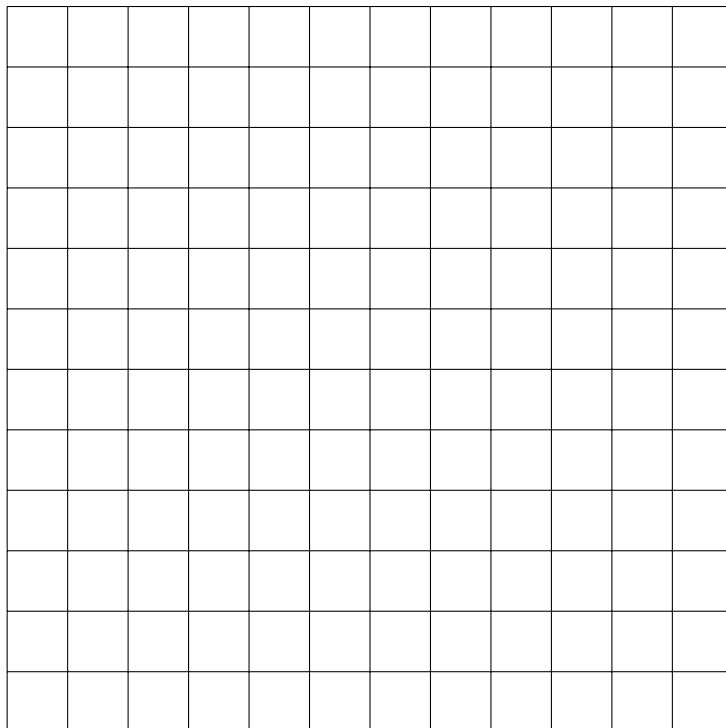
Signature: _____

Objective A2: Given a symbolic or verbal representation of a function, including piecewise functions, student can create a table or graph.

1. Given the function $y = 5 - x^2 + 2x$, create a table of values and a graph with the given values of x. Be sure to label your axes and use an appropriate scale. Be sure to show every point from your table on the graph.

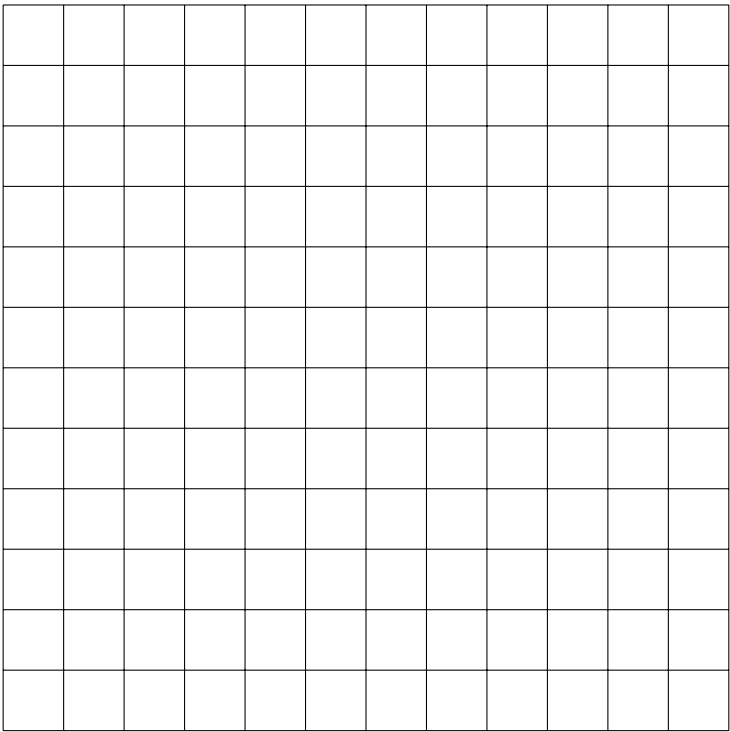| x	y
-2	
-1	
0	
1	
2	
3	
4	

Graph:

2. You are riding a train to visit a friend. For the first two hours, the train travels at a speed of 60 miles per hour. Then, for the next three hours, the train travels at a speed of 80 miles per hour. After that, the train continues for five more hours, but due to track work, it can only go 45 miles per hour.

Create a table and graph to model the total time passed and **TOTAL** distance traveled after t minutes. Choose input (time) values that make sense for this situation.

time (t minutes)	distance (miles)

Graph:

Work space: