

# QAP 2 Cody Collins

1. How many hours did it take you to complete this assessment? (Please keep try to keep track of how many hours you have spent working on each individual part of this assessment as best you can - an estimation is fine; we just want a rough idea.)

A: it took me roughly 8 hours total to complete this assignment

2. What online resources you have used? (My lectures, YouTube, Stack overflow etc.)

A: I used knowledge from your lectures as well as rewatching some recordings, as well as chatgpt as a learning tool to help explain certain steps

3. Did you need to ask any of your friends in solving the problems. (If yes, please mention name of the friend. They must be amongst your class fellows.)

A: no

4. Did you need to ask questions to any of your instructors? If so, how many questions did you ask (or how many help sessions did you require)?

A: no

5. Rate (subjectively) the difficulty of each question from your own perspective, and whether you feel confident that you can solve a similar but different problem requiring some of the same techniques in the future now that you've completed this one.

A: overall the assignment was fairly challenging I had the most issues with problem 3 and spent the longest on completing that one

# Screenshots

## Problem #1

```
Initial Lines:
MyLine[begin=(1, 2), end=(4, 6)]
MyLine[begin=(2, 3), end=(5, 7)]

Testing Getters:
Begin Point of line1: (1, 2)
End Point of line1: (4, 6)
Begin X of line2: 2
Begin Y of line2: 3
End X of line2: 5
End Y of line2: 7

Testing Setters:
MyLine[begin=(0, 0), end=(3, 4)]
MyLine[begin=(1, 2), end=(4, 6)]

Testing Length and Gradient:
Length of line1: 5.0
Gradient of line1: 0.9272952180016122
Length of line2: 5.0
Gradient of line2: 0.9272952180016122

Final Lines:
MyLine[begin=(0, 0), end=(3, 4)]
MyLine[begin=(1, 2), end=(4, 6)]
```

## Problem #2

```
Initial Rectangle:
MyRectangle[topLeft=(1, 5), bottomRight=(8, 2), width=7, height=3]

Testing Getters:
Top-left of rect1: (1, 5)
Bottom-right of rect1: (8, 2)

Testing Setters:
MyRectangle[topLeft=(0, 6), bottomRight=(8, 1), width=8, height=5]

Testing Rectangle Properties:
Width of rect1: 8
Height of rect1: 5
Area of rect1: 40
Perimeter of rect1: 26

Final Rectangle:
MyRectangle[topLeft=(0, 6), bottomRight=(8, 1), width=8, height=5]
```

## Problem #3

```
Diane Christie, 237J Harvey Hall, Menomonie, WI, 54751
Balance: $0.00
Credit Limit: $1000.00

Attempt to charge $200.00
Charge: $200.00
Balance: $0.00
Attempt to charge $10.02
Charge: $10.02
Balance: $0.00
Attempt to pay $25.00
Payment: $25.00
Balance: $0.00
Attempt to charge $990.00
Charge: $990.00
Balance: $0.00
```