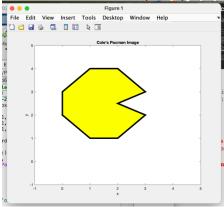
Your Name: Cole Bardin Section: 62

First Last

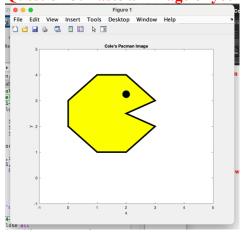
**Spring 2022** 

As a convenience, this **answer template** is provided if you wish to easily submit your work. Be sure to save it as a PDF before submitting online!

Questions 1-2: Paste your yellow Pacman image here. Must <u>not</u> show the dots.



Question 3: Paste an image of your yellow Pacman with black eye here.



#### **Questions 4-5: Anonymous functions**

Question 4: After defining the anonymous function translate(dx, dy) as above, find the result of:

>> translate(3,5) \* [5; 8; 1]

Answer: [8; 13; 1]

```
Question 5: Show your inline code for the anonymous function rotate(d).

Paste code here:

rotate = @(d) [cosd(d), -sind(d), 0; sind(d), cosd(d), 0; 0,0,1];

Calculate both vectors and paste in the result. Does v1 = v2?

v1 = rotate(30) * rotate(60) * [7;24;1]

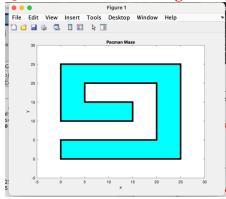
v2 = rotate(90) * [7;24;1]

Answer: Yes:

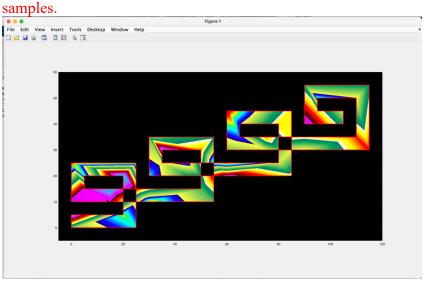
v1 = [-24; 7; 1]

v2 = [-24; 7; 1]
```

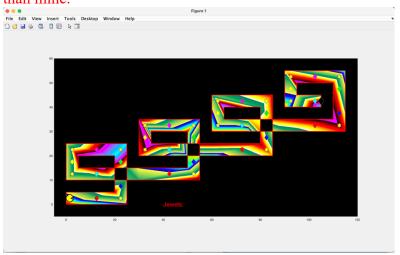
#### Question 6: Paste an image of loop one for the maze here. (No dots!)



### Question 7: Paste an image of your Four Loop Maze here. Must be different than my two



**Question 8:** Paste in your image showing the four-looped maze, the large black jewel, PACMAN, the 24 bonus jewels and the 16 turning points. You **must** use a different color pattern for the maze than mine.



Question 9: Paste your code for crossing the void here.

#### **Question 10: What is the final score?**

Pacman's final score after gobbling all the crystals, crossing the voids and then doubling his/her total score upon winning the large **black** crystal is:

Final Score = 2020

# That's it! Hope you enjoyed the game!

#### **Ready to Submit?**

Be sure all ten questions are answered. When your lab is complete, be sure to submit three files:

- 1. Your **completed Answer Template** as a PDF file
- 2. A copy of your MATLAB Ordinary m-file
- 3. A **PDF** copy of your **MATLAB Ordinary m-file** (Save-Export to PDF...)

The due date is the day after your lab section by **11:59pm** to receive full credit. You have one more day, to submit the lab (but with a small penalty), and then the window closes for good and your grade will be zero.