

## HW#0 - Homework Report

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09/02/2022 (due 09/13/2022)

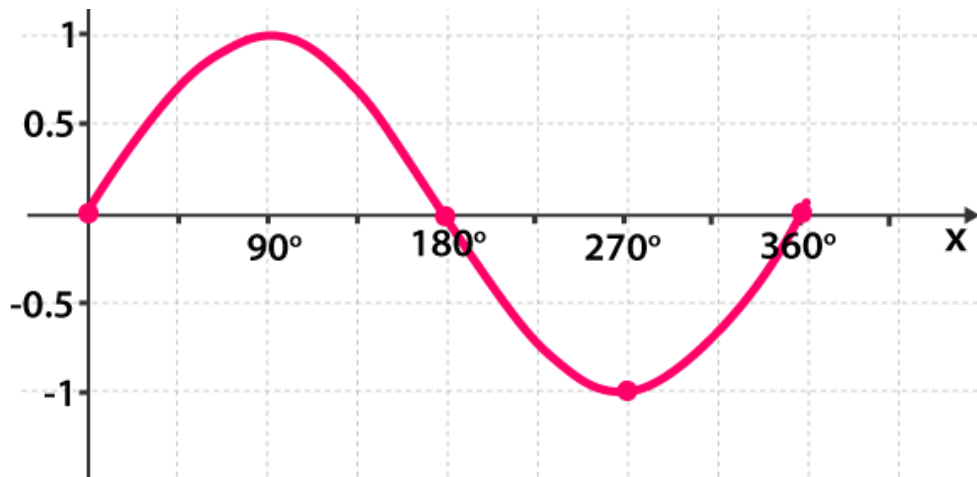
### Q1

*You may copy the question into your report, but make sure that you make it clear where the question ends and your answer begins.*

### Answer

*All figures must have a caption and must be referenced in the text. Example below.*

Figure 1 shows the graph of the trigonometry function  $y = \sin x$ .



**Figure 1:** Sine Graph

*If you want to include code in your report, you can insert a screenshot (if it's legible), or you can copy/paste the code into a listings environment. There are examples below and more information is available at [https://www.overleaf.com/learn/latex/code\\_listing](https://www.overleaf.com/learn/latex/code_listing).*

Listing 1 is an example of directly copying code into the LaTeX document and having the listings package perform syntax highlighting. Listing 2 is an example of importing the code from a file rather than copying it in.

```
1 a = 1
2
3 try:
4     b = int(input("Please enter a number to divide a"))
```

```

5     a = a/b
6     print("Success a=",a)
7 except ZeroDivisionError:
8     print("The number you provided cant divide 1 because it is 0")
9 except ValueError:
10    print("You did not provide a number")
11 except:
12    print("Something went wrong")

```

**Listing 1:** Python example copied into the LaTeX

```

1 a = 1
2
3 try:
4     b = int(input("Please enter a number to divide a"))
5     a = a/b
6     print("Success a=",a)
7 except ZeroDivisionError:
8     print("The number you provided cant divide 1 because it is 0")
9 except ValueError:
10    print("You did not provide a number")
11 except:
12    print("Something went wrong")

```

**Listing 2:** Python sample code loaded from file

Table 1 shows a simple example table. Table 2 shows an example confusion matrix (you'll see this term later) from [https://en.wikipedia.org/wiki/Confusion\\_matrix](https://en.wikipedia.org/wiki/Confusion_matrix). This employs rows that span multiple columns (multicol) and columns that span multiple rows (multi-row).

**Table 1:** Simple Table

Week	Date	Topic
1	Sep 1, 6	Introduction to Web Science and Web Architecture
2	Sep 8, 13	Introduction to Python
3	Sep 15, 20	Introduction to Info Vis with R, Python
4	Sep 22, 27	Measuring the Web

**Table 2:** Example Confusion Matrix from Wikipedia

		Actual	
		Cat	Dog
Predicted	Cat	5 (TP)	3 (FP)
	Dog	2 (FN)	3 (TN)

## Discussion

*You must provide some discussion of every answer. Discuss how you arrived at the answer and the tools you used. Discuss the implications of your answer.*

## Q2

### Answer

### Discussion

## Q3

### Answer

### Discussion

## References

*Every report must list the references that you consulted while completing the assignment. If you consulted a webpage, you must include the URL.*

- Trigonometry Graphs, <https://byjus.com/maths/trigonometry-graphs/>
- StackExchange - Can't edit a downloaded template from Overleaf on TexMaker, <https://tex.stackexchange.com/questions/593363/cant-edit-a-downloaded-template-from-overleaf-on-texmaker>
- How to Create a Folder in Github Repos in 4 Simple Steps <https://www.alpharithms.com/how-to-create-a-folder-in-github-repos-463022/>