# Lab 1 Solutions

Summer Session A, 2023, Ethan M. June 22, 2023

## 1 Task 2

```
[1]: 2 + 2
```

[1]: 4

## 2 Task 3

[2]: 2 plus 2

```
Cell In[2], line 1
2 plus 2

SyntaxError: invalid syntax
```

### 3 Task 4

```
[3]: (2 + 3) / (4 + 5 ** 6)
```

[3]: 0.0003199181009661527

[4]: 838839550121163601921

### 4 Task 5

[5]: sin(1)

```
NameError Traceback (most recent call last)
Cell In[5], line 1
----> 1 sin(1)
```

```
NameError: name 'sin' is not defined
 [6]: from math import *
 [7]: \sin(1)
 [7]: 0.8414709848078965
        Task 6
     5
 [8]: my_variable = 5
 [9]: print(My_variable) # should return error
      NameError
                                                 Traceback (most recent call last)
      Cell In[9], line 1
      ---> 1 print(My_variable) # should return error
      NameError: name 'My_variable' is not defined
     6 Task 8
[10]: type(1)
[10]: int
[11]: type(1.1)
[11]: float
[12]: type("hello")
[12]: str
        Task 9
[13]: course = "PSTAT 5A"
      num\_sections = 4
      section\_capacity = 25
[14]: num_sections = num_sections + 1
```