

**Problem 1.**

Here is the first homework problem solution.

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}.$$

**Problem 2.**

Here is the second homework problem solution. It has some parts:

(a) One aspect of this problem.

Some further discussion.

Still more...

(b) Another aspect

And it has a URL reference (Tufts).

**Problem 3.**

Here we include some computer code.

```
def square(x):  
    return x*x  
  
result1=list(map(square, [1,2,3]))  
result2=list(map(square, [2,4,6]))  
print(result1)  
print(result2)
```

and we include also the *output* from this code's execution:

```
[1, 4, 9]  
[2, 16, 36]
```