

Assignment #1
UW-Madison MATH 421
YOUR NAME HERE
January 15, 2021

Exercise One:

a) Code:

```
If $f(x) = x^n$, then  
$$  
f'\prime(x) = n x^{n-1}.  
$$
```

Output: If $f(x) = x^n$, then

$$f'(x) = nx^{n-1}.$$

b)

c)

Exercises Two:

Exercise Three:

Exercise Four:

Exercise Five:

Exercise Six: