Kritik Assignment 1 Good.ipy

Code

[1]:
```
def greg(x):
    n=0
    a=0
    error_bound = (x**(2*n+1)/(2*n+1))
    if 0 <= x <= 1:
            while error_bound>0.0001:
                n+=1
                error_bound = (x**(2*n+1)/(2*n+1))
            for(i) in range(0, n-1):
                a+=((-1)**i*x**(2*i+1)/(2*i+1))
            second_n=(2*n+1)
            return (a, second_n, error_bound)

    else:
        print("Error!")
```

[15]:
```
greg(-1)
```

```
Error!
```

[16]:
```
greg(0)
```

[16]:
```
(0, 1, 0.0)
```

[17]:
```
greg(0.25)
```

[17]:
```
(0.24479166666666666, 7, 8.719308035714285e-06)
```