## Sunny Lee

1. Running Newton's method:

```
i =
     22
ans =
0.64116643077930320512863651852324
```

2. Running the Modified Newton's method: at p=0.64116643. Using the first and second derivative:

```
i =
    3
ans =
0.6411857445050227323393377286296
```

So we see that the Modified Newton's converges much faster than the regular Newton's method.

3. Using Newton's method:

```
i =

4

ans =

4.5983520415341891789245837413861e-33
```

4.