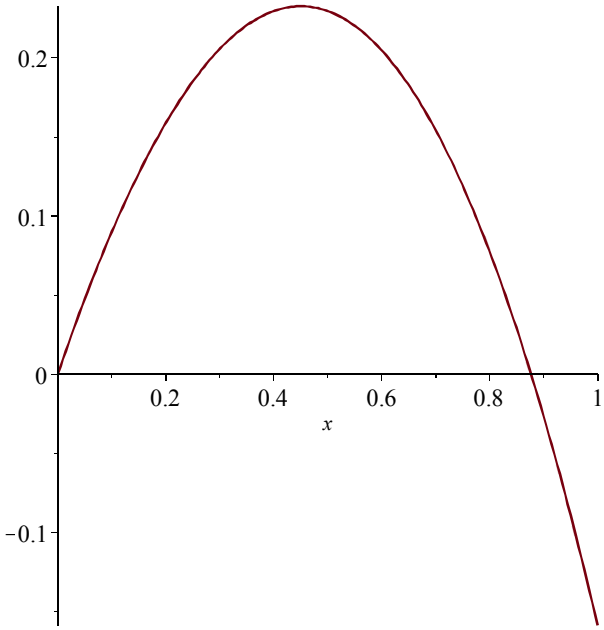
```
# Prof. Dr. Serkan Dağ
# ME 310 Numerical Methods
# File 3.3
# Root of sinx = x^2
```

```
restart :
Digits := 16 :
```

```
f := sin(x) - x^2;
```

$$f := \sin(x) - x^2 \tag{1}$$

```
plot( f, x = 0 ..1 );
```




```
evalf( subs(x = 0.877, f) );
```

$$-0.0003050399888014 \tag{2}$$

```
fsolve( f = 0, x = 0.8 ..1 );
```

$$0.8767262153950624 \tag{3}$$

```
>
```