

```
f_prime = diff(F);
```

```
X = 0.5
```

```
for i = 1:10;
```

```
    for (i+1) = i;
```

```
        X(i) = X;
```

```
        X = double(subs('x - Cf/f_prime'))
```

```
        X(i+1) = X;
```

```
    end
```

Iter	Values of x	Error
0	0.5	0
1	0.83889	40.397
2	0.88496	5.2054
3	0.88571	0.084972
4	0.88571	2.22478×10^{-5}
5	0.88571	$1.5293e-12$
6	0.88571	0