
```
ref = newton(.1, 10^-200);
ref = ref(end);
```

```
fzer = findzero(.1, 10^-15);
newzer = newton(.1, 10^-99);
quadzer = quadnewton(.1, 10^-99);
efzer = abs(fzer-ref);
enewzer = abs(newzer-ref);
equadzer = abs(quadzer-ref);
```

```
figure(1)
clf
semilogy(efzer, '*')
hold on
semilogy(enewzer, '*', 'Color', [1 0 0])
semilogy(equadzer, '*', 'Color', [0 1 0])

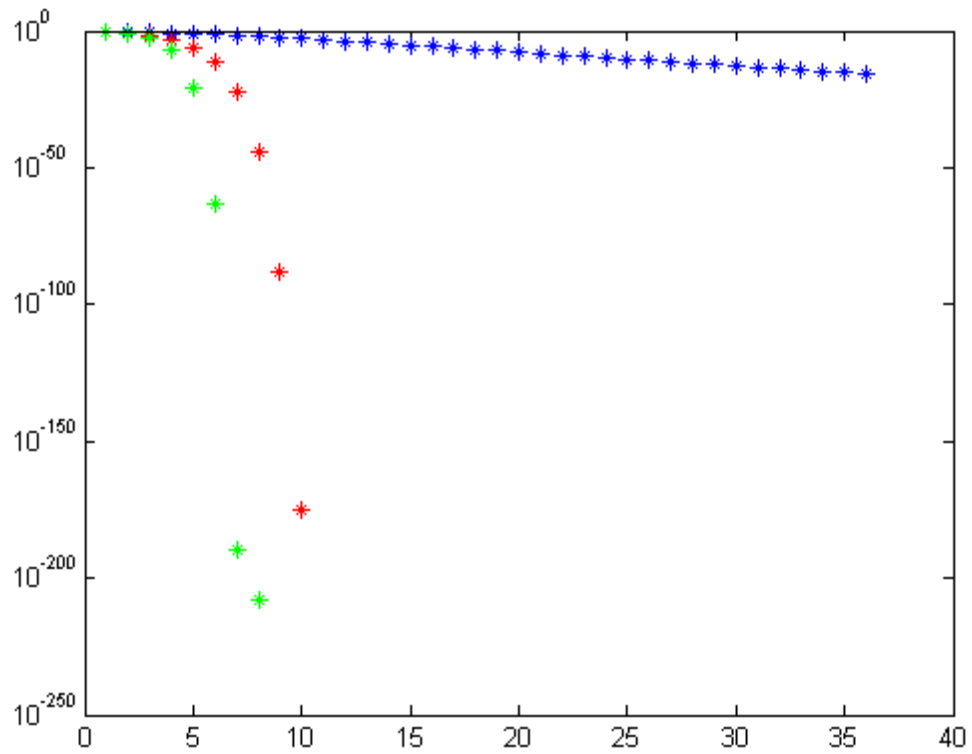
disp(newzer)
disp(quadzer)
```

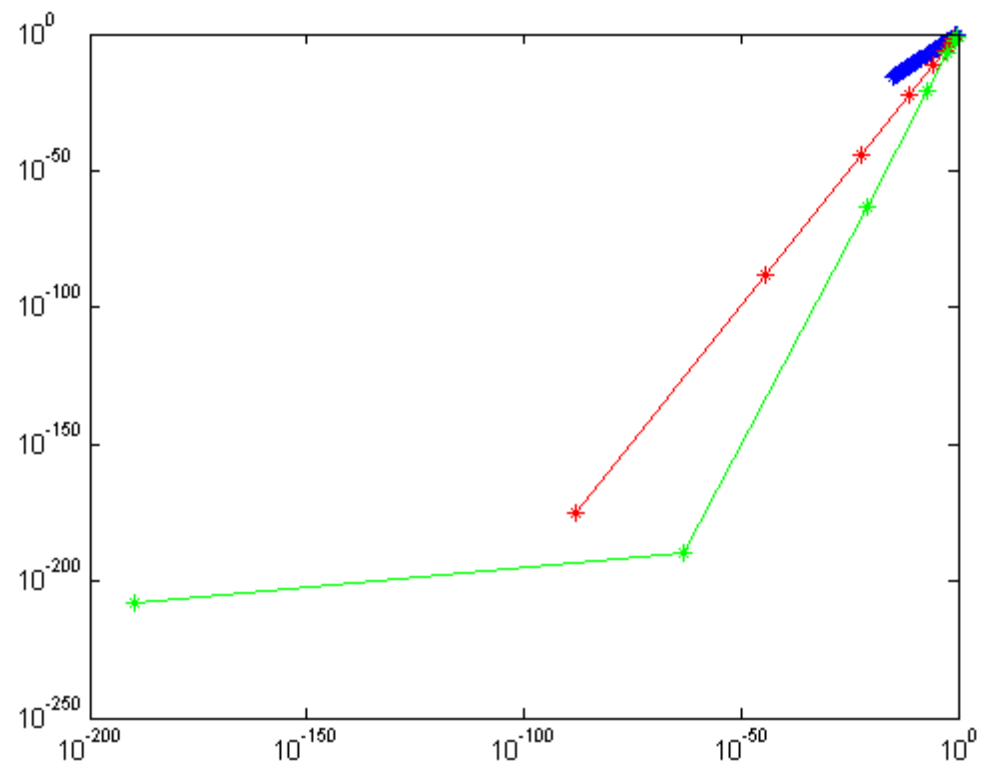
```
figure(2)
clf
loglog(efzer(1:end-1), efzer(2:end), 'Color', [0 0 1])
hold on
loglog(efzer(1:end-1), efzer(2:end), '*', 'Color', [0 0 1])
%figure(3)
%clf
loglog(enewzer(1:end-1), anewzer(2:end), 'Color', [1 0 0])
hold on
loglog(enewzer(1:end-1), anewzer(2:end), '*', 'Color', [1 0 0])
%figure(4)
%clf
loglog(equadzer(1:end-1), equadzer(2:end), '*', 'Color', [0 1 0])
hold on
loglog(equadzer(1:end-1), equadzer(2:end), 'Color', [0 1 0])
```

```
-0.4401154452364508799922637341991021387094491712637669510343657295186475
-0.5271736114493481086735964903444474017938906662529296031157401929317131
-0.5437347259988739855001805818656027048640234634047929692419626298759474
-0.5444410950814419764948838408587513171007376604167052374194573792119934
-0.5444424006762350451901893668555903818600957255228296023718092386188506
-0.5444424006806975555901540784288178027192197071448129292726328944128225
-0.5444424006806975555902062124591701197679376327526196562570635029825104
-0.5444424006806975555902062124591701197679376398681195884743984176371109
-0.5444424006806975555902062124591701197679376398681195884743984176371109
```

```
-0.3853773264393319270935013247203772077249513213865123471511580989985642
-0.5397185525164466763784922779968758534470733335767486600407316658355838
```

-0.5444423031588031047304911109160419834269031169870180055364965724257780
-0.5444424006806975555893595401302093633180671224062470586860068060304757
-0.5444424006806975555902062124591701197679376398681195884743984170830533
-0.5444424006806975555902062124591701197679376398681195884743984176371109
-0.5444424006806975555902062124591701197679376398681195884743984176371109





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