

### Script: newton.m

```
function x=newton(a,b,N)
x=zeros(2,N);
x(:,1)=[a,b];
for n=1:N
    A=[2*x(1,n)*x(2,n) x(1,n)^2;exp(x(1,n)) 1];
    V=[x(1,n)^2*x(2,n)+1;exp(x(1,n))+x(2,n)];
    x(:,n+1)=x(:,n)-A\V;
end
```

### Script: eksempel.m

```
x=newton(-.7,-2.5,20);
plot(x(1,:),x(2,:))
```

### Utskrift:

