

Exempel 4.9

```
x = [0 1 3 4 6 7 9 10]';  
y = [0 1.2 2.0 2.4 2.5 2.2 1.4 0.3]';
```

```
A = [x.^2 x ones(size(x))];  
c = A\y;
```

```
% Tabulera residualerna  
yp = polyval(c,x);  
disp([x y yp (yp-y)])
```

```
% Plotta  
xv = linspace(0,10,100);  
yv = polyval(c,xv);
```

```
plot(xv,yv,x,y,'*')
```

```
>> poly  
      0      0  0.1186  0.1186  
1.0000  1.2000  0.9685 -0.2315  
3.0000  2.0000  2.1221  0.1221  
4.0000  2.4000  2.4257  0.0257  
6.0000  2.5000  2.4865 -0.0135  
7.0000  2.2000  2.2438  0.0438  
9.0000  1.4000  1.2120 -0.1880  
10.0000  0.3000  0.4229  0.1229
```

```
>>
```

