Polyval () and Polyfit ()

Ex.
$$p1 = [3 \ 0 \ -1];$$
 $polyval(p1, 1:2)$
 $3x^2 + 0x - 1$
 $polyval = 3(2)^2 + 0(2) - 1$

Ex. (More practical)

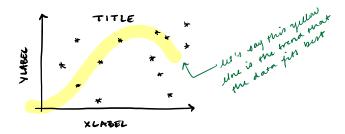
(a) Have a data file where first column is x-values, second column is y-values. This data file is called raw-data.dat

```
load raw-data. dat

plot (raw-data(:,1), raw-data(:,2), 'K++')

XI=+printf('... & LABEL', 'X'); Just shaving examples of sprintp(), not really
y1=+printf('... & LABEL', 'Y'); necessary in this example
title ('TITLE')

XLabel(X1)
yLabel(Y1)
```



(b) now sking this poot, we want to fit the data! Let's say we want to fit a cubic meaning phynomial order is 3.