

## Help file for Matlab Assignment 2

### Finding roots of polynomials using MATLAB

Polynomials are entered as  
a vector containing coefficients of polynomial

- Example: The polynomial  $m^3 + 3m^2 - 4$  is entered as

- `>> p = [1 3 0 -4]`

- `>> m = roots(p)`

Gives roots of polynomial

Example: Find roots of  $m^3 + 3m^2 - 4$

```
>> p = [1 3 0 -4]
```

```
r = roots(p)
```

```
r =
```

```
-2.0000 + 0.0000i
```

```
-2.0000 - 0.0000i
```

```
1.0000
```