## Polynomial Spectra

## Here's an idea.

Why not model signals of interest with a non-constant, a-periodic sinusoidal waveform?

```
x^4+3*x^3+8x^2+1=0
```

y = polyval(p,x) evaluates the polynomial p at each point in x. The argument p is a vector of length n +1 whose elements are the coefficients (in descending powers) of an nth-degree polynomial:

$$p = 1 \times 4$$

1 3 8 1

plot(x,polyval(p,x)) % we plot the polynomial vs. input grid on % plot has grid lines

