

### Steps to graphing a polynomial function:

#### 1. End Behavior

	Description	Example
a. Positive and Even Degree		
b. Positive and Odd Degree		
c. Negative and Even Degree		
d. Negative and Odd Degree		

#### 2. X-intercepts

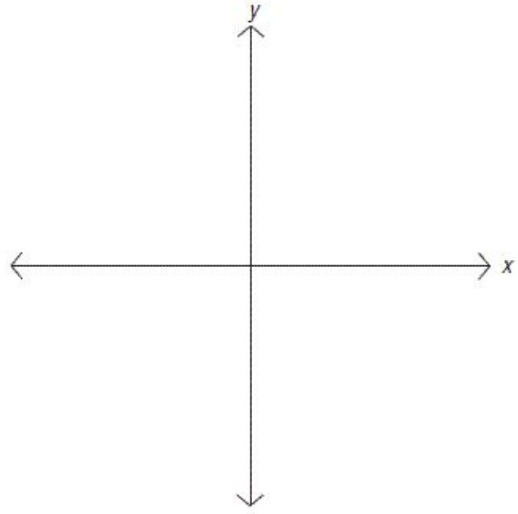
Behavior		
	Description	Example
Odd Degree		
Even Degree		

#### 3. Y-intercepts

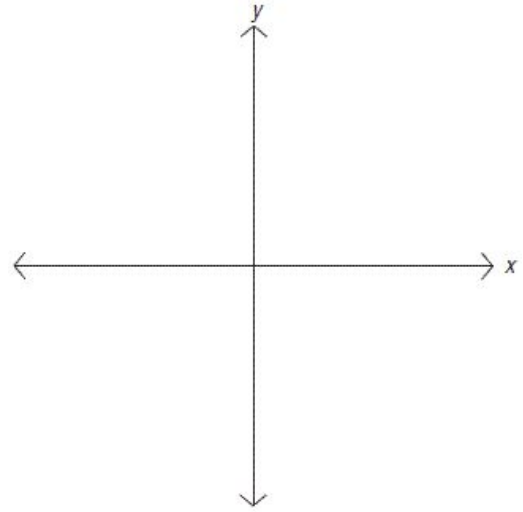
3.4 Polynomial Functions:  
Graphs, Applications, and Models  
Honors Algebra 2 with Trig

Graph:

I.  $f(x) = 2x(x - 3)(x + 2)$



II.  $f(x) = (3x - 1)(x + 2)^2$



III.  $f(x) = x^4 + 4x^3 + x^2 - 6x$

