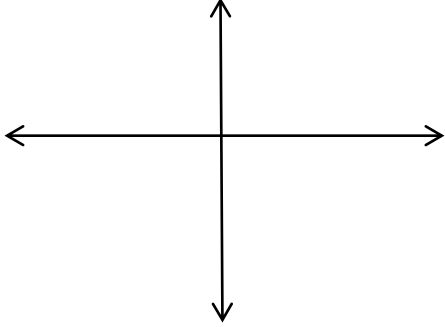
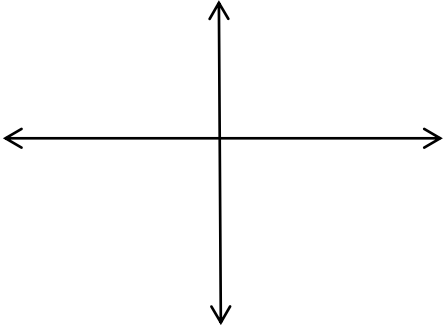
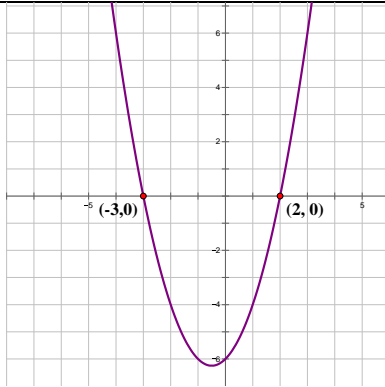
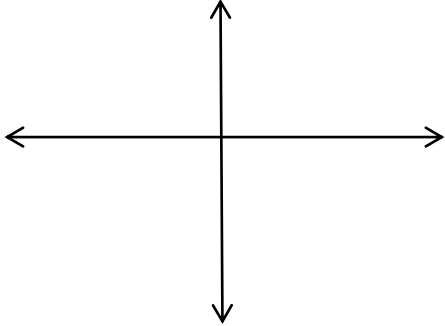
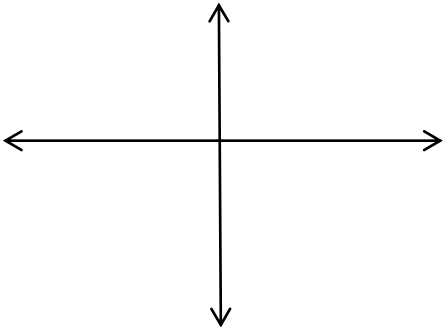
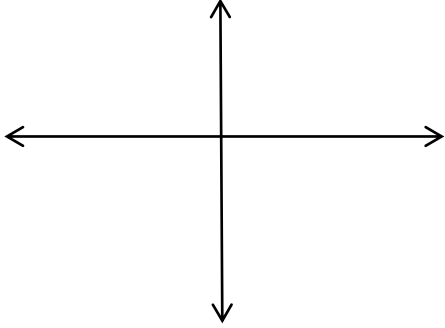


Polynomials Bringing It All Together

Name: _____ A# _____

Complete this **without** the aid of a graphing calculator. One column is provided for you in each problem. Fill in the remainder using the information provided.

Standard Form	Factored Form	Zeros and Multiplicity	End Behavior	Even or Odd (Explain)	Sketch of Graph
1. $y = 2x^3 + 3x^2 - 18x + 8$	$y = (x - 2)(x + 4)(2x - 1)$				
2.	$y = -x(x - 3)^2(x + 3)^2$				
3.	Going through the point (1, -4)				

Standard Form	Factored Form	Zeros and Multiplicity	End Behavior	Even or Odd (Explain)	Sketch of Graph
4. $y = 2x^4 + 8x^3 - 10x^2$					
5.	HN: Going through the point (0, -90)	$x = -3$ multiplicity of 2 $x = 5$			
6. $y = 4 - x^2$					

7. In your own words describe the relationship between factored form, zeros, and graphs of polynomials.