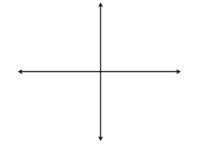
\*Objectives:

**Got lt? 1.** What is the factored form of  $x^3 - x^2 - 12x$ ?

\*Roots, Zeros, and x-intercepts

**Got It? 2.** What are the zeros of y = x(x-3)(x+5)? Graph the function.



\*The Factor Theorem

Got It? 3. a. What is a quadratic polynomial function with zeros 3 and -3?

**b.** What is a cubic polynomial function with zeros 3, 3, and -3?

	*How Multiple Zeros Affect a Graph	
Linear	Quadratic	Cubic
601 It? 4. What are the zeros of f(	$x) = x^3 - 4x^2 + 4x?$ ities? How does the graph	<b>↑</b>
behave at these zeros?	nies: now does die graph	
		↓
*Relative Maximum and Minii	mum (p. 291)	
	W - /	

Inclass: p. 293 #8, 18, 22, 32 Homework: p. 293 #7-33(odd) Interactmath: #9, 16, 23, 30, 32