Polynomial 6b - Graphing Polynomials in Standard Form

Standards: A-APR.2, A-APR.6, A-REI.4

GLO: #3 Complex Thinker

<u>Math Practice:</u> #1 - Make sense of problems and persever in solving them

Learning Target:

How can we use division to graph polynomials?



Nov 29-1:33 PM

Summary of the last few lessons (erase to show)			
1.	Standard	form of a polynomial f	unction is
	$\overline{P(x)} = a_n x^n + a_{n-1} x^{n-1} + a_{n-2} x^{n-2} + \dots + a_2 x^2 + a_1 x + a_0$		
	P(x)=-2>	<"+1× ³ -4× ² -17;	×+5
2.	The degree & and the const	leading coefficient yie tant term yields the	lds end behavior /-intercept .
3.	The zeros polynomial ch	(including multiplicity) on anges direction.	often reveal if a
Now that we know how to factor polynomials given at least one zero or factor and using long division, we proceed by finding the remaining zeros, which will allow us to sketch a rough graph that includes all intercepts. Note: it is possible that some zeros will be complex, which will not show up on the graph, but which still tells us the number of x-intercepts.			





Jan 20-10:29 PM



