ALG III   Name:_____
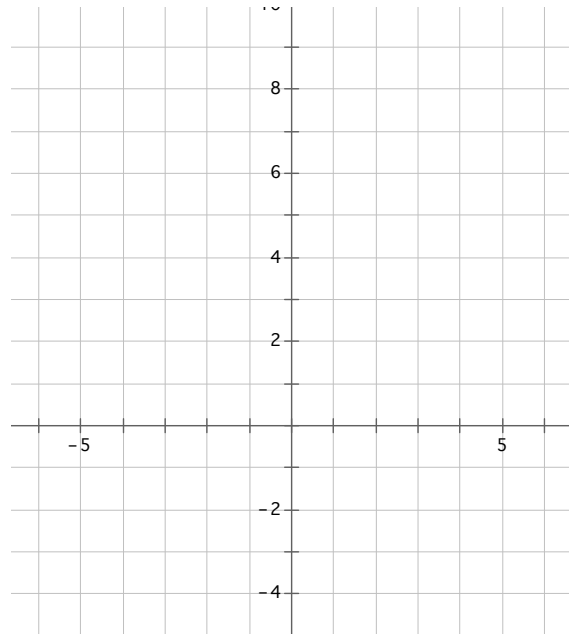Graphing Polynomials Day #1   1/16/18
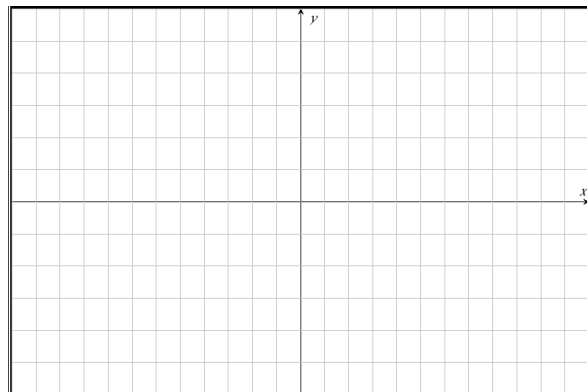
Warm Up: Graph $f(x)=x^2-6x+5$

EX #1: Given $x-2$ is a factor of $f(x)=x^3-3x^2-10x+24$.
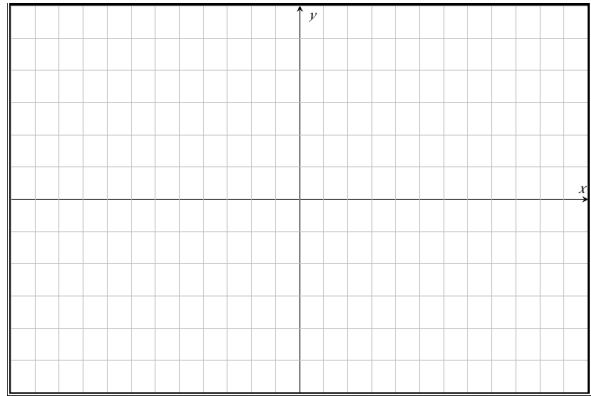
    a.   Factor completely.
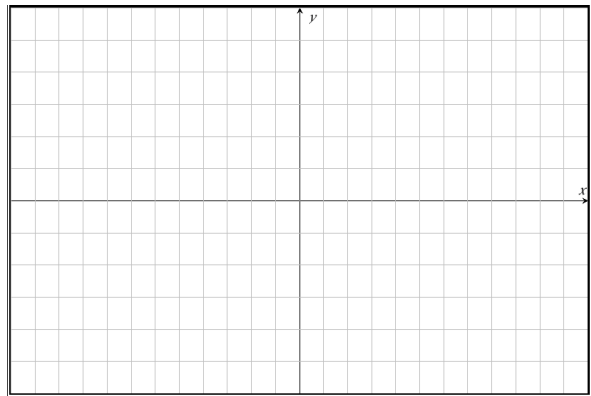
    b.   Sketch a graph of $f(x)$.

EX #2: Given $f(x) = x^3 + 3x^2 - 10x$

Factor completely and sketch the graph.

EX #3. Given $x = 3$ is a zero of $f(x) = x^3 + x^2 - 8x - 12$.

Factor completely and sketch the graph.

EX #4 Sketch the graph of $f(x) = (x-3)(x+4)^2(x+1)^3$