Agenda: 9/8/15

lesson 33

Polynomial Review

Quiz back after lesson

. Test Corrections done by today

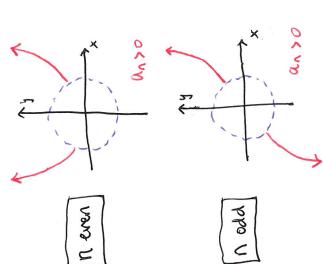
. Talk with those who haven't given me a parent signed-me

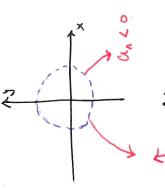
A Work on WS or AW 33

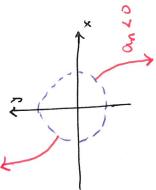
Factors of Polynomial functions;

- · Inducible factors new zero
- · Aeal linear factors zeros
- Odd multiplicity; gaph casses the x-axis
- even multiplicity; graph to whee but doesn't cross x-axis

Qnx"+ Qn-1 x"+ + + + Q2x2+ q,x+Q0 P(x)= End Behavior:





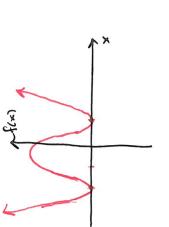


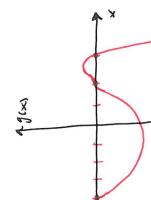
Turning Point Theorem: Always have fewer turning points (local min/max) then the degree of a polynomial.

X is the x-coord of influxation pant. A N=2, X is the x-look of vertex, for n=3, X is the x-look of center of graph 1241

Ex. Sketch the following:

$$f(x) = (x-1)^2(x+2)^2$$





Don't include y-axis ficks since this is a sketch

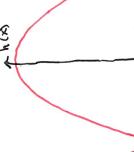
Degree: 1+4+2+3+2=12

negative coef.

 $h(x) = (x+4)(x+2)^{4}(x^{2}+3)(3-x)^{3}(5-x)^{2}$

(-): OT

EB: 202



- HCR