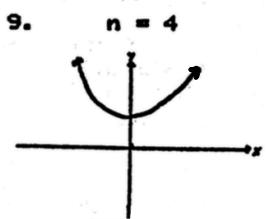
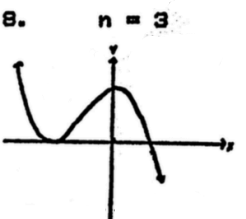
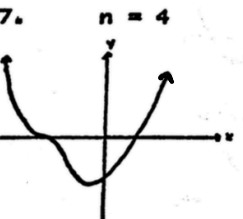
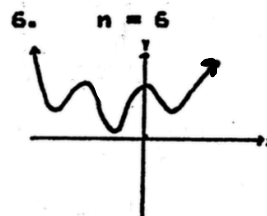
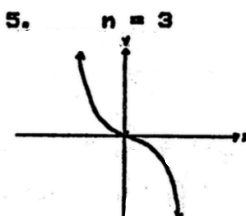
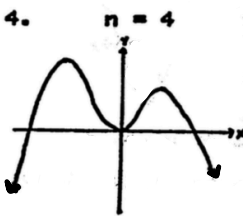
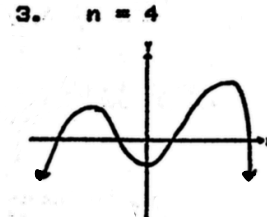
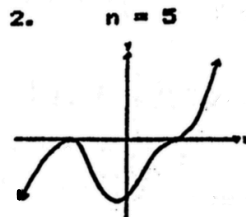
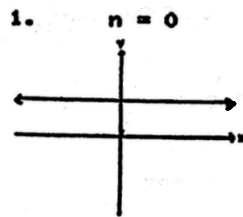


Name: _____
PCH: Graphs of Polynomials

Date: _____
Ms. Loughran

Do Now:

- For each of the following graphs, given the degree of the polynomial, determine:
 - the number of distinct real zeros.
 - the multiplicity of any real zeros.
 - the number of non-real zeros.



- It is possible for a cubic polynomial with real coefficients to have all non-real zeros? To have exactly 2 non-real zeros?
- Make a sketch of a 5th degree polynomial which has 1 real zero of multiplicity 3 and 2 non-real zeros.