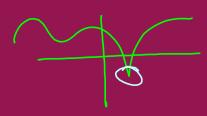
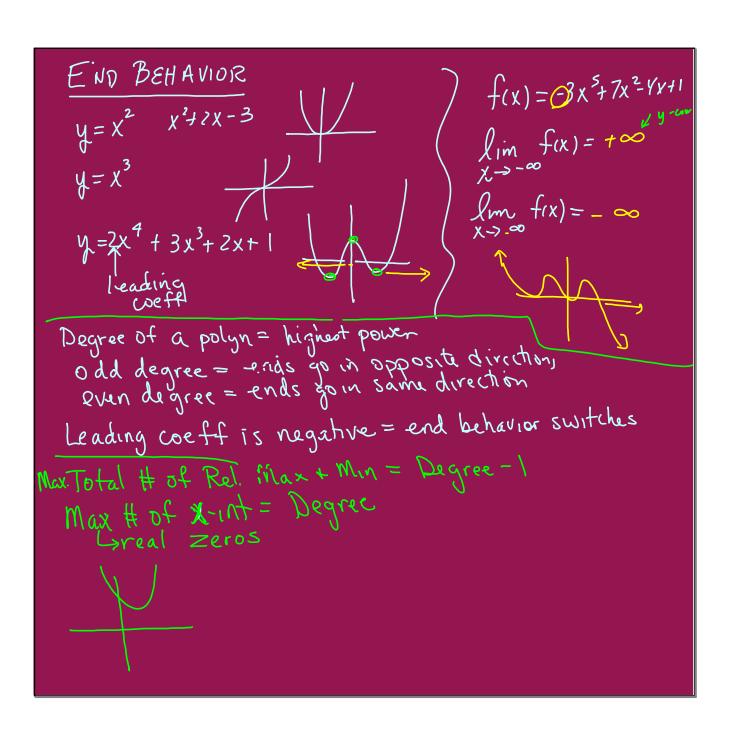
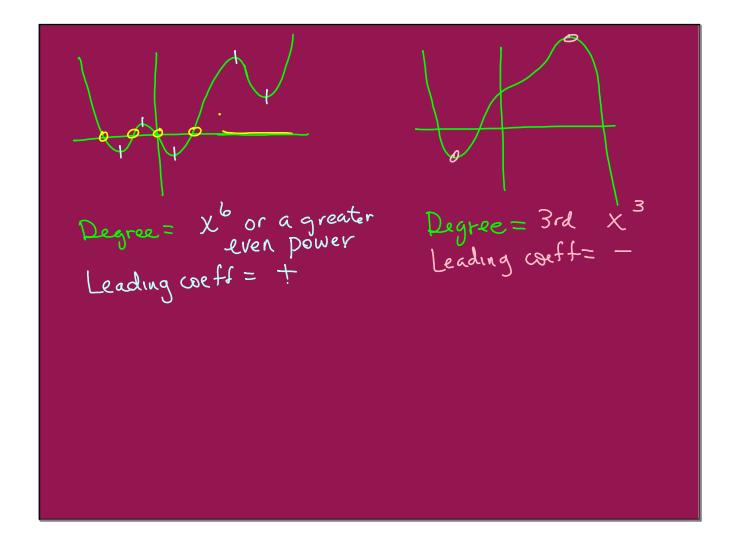
TOLYNOMIAL + RATIONAL FUNCTIONS

Polynomial - + one or more terms Characteristics of graphs of yours of graphs of polynomials Polynomials Y Solve polyn. equations

Characteristics: * continuous - no holes * Smooth, rounded turns







SOLVING Polynomials
$$(2x^{3}-8x^{2})(+3x-12) = 0$$

$$2x^{2}(x-4) + 3(x-4) = 0$$

$$(x-4)(2x^{2}+3) = 0$$

$$(x-4)(2x^$$

Factor by Grouping if 4 terms.

Solve
$$2x^{5}+3x^{4}-x^{3}+9x^{2}-55x-30=0$$
 $(x^{2})(x+1)(x-1)(x-1)(x-1)$
 $x=2$
 $x=2$
 $x=2$
 $x=2$
 $x=3$
 $x=2$
 $x=3$
 $x=2$
 $x=3$
 $x=2$
 $x=3$
 x