Algebra 2 Bellwork Friday, November 22, 2013

1. State the degree, tell if the leading coefficient is pos or neg, and describe the end-behavior

$y = -x^2(3x - 1)^3(x + 7)(5 - x)(x + 6)(10 - x)^2$

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Degree = 10

Leading Coefficient is Positive

End Behavior: (↖, ↗)

2. State the degree, the leading coefficient, and describe the end-behavior

$y = -10x^4 + 28x^2 - 4x^7 + 32x + 100$

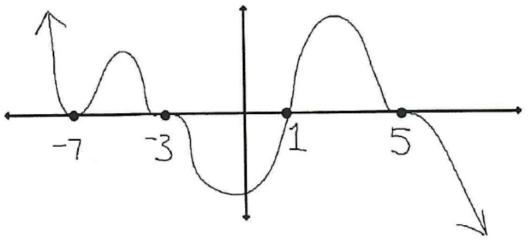
Degree = 7

Leading Coefficient = -4

End-Behavior: (↖, ↘)

3. Write a possible equation for this polynomial.

this is a negative odd function



$y = -(x+7)^2(x+3)^3(x-1)(x-5)^3$

4. Graph this polynomial: $y = -x^2(x - 8)^3(x + 3)(x + 6)(2 - x)$

This is a positive even function