Tuesday, December 16, 2016 Bellwork Hon Alg 2

State the Degree and Leading Coefficient of each Polynomial.

1.
$$y = -6x^3 + 72x^2 + x^5 - 9 + 5x^4$$

Deg=

LC =

2.
$$f(x) = (6x+1)^2(3x+1)(5-2x)$$

Deg =

LC =

3.
$$f(x) = 2x(4x-9)^3(x-7)(5x+11)^2$$

Deg=

LC =

4.
$$y = (5x^2 + 7)^2(5 - 3x)^3(x + 1)(4x - 9)^2$$

Deg =

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1.
$$y = -6x^3 + 72x^2 + x^5 - 9 + 5x^4$$

LC =

2.
$$f(x) = (6x+1)^2(3x+1)(5-2x)$$

 $(36x^2)(3x)(-2x) \longrightarrow -216x^4$

3.
$$f(x) = 2x(4x-9)^3(x-7)(5x+11)^2$$

 $(2x)(64x^3)(x)(25x^2) \longrightarrow 3200 x^7$

4.
$$y = (5x^{2} + 7)^{2}(5 - 3x)^{3}(x + 1)(4x - 9)^{2}$$

 $(25x^{4})(-27x^{3})(x)(16x^{2}) \longrightarrow -10,800x^{10}$
Deg = $4\pi q /0$
 $LC = -10,800$