Algebra 2 Bellwork Friday, November 21, 2014

Find the degree and leading coefficient for each polynomial.

1. $y = -2x^5 + 8x^3 + 24x^2 - 9x + 73$

DEG=
Lead Coeff=

2. $y = 10x^2 + 16x - 4x^4 + 3x^3 - 25$

DEG=
Lead Coeff=

3. $y = (x + 6)^2(2x - 7)(3x + 4)^2$

DEG=
Lead Coeff=

4. $y = -5x(2x + 7)^3(4x - 3)^2(10x + 1)$

DEG=
Lead Coeff=

Determine if the degree of each function is ODD or EVEN and if the leading coefficient is POSITIVE or NEGATIVE.

5. $y = 8x^3(6x - 7)^2(3 - x)$

DEG:
Lead Coeff:

6. $y = -6x^2(8 - 2x)^2(3x + 11)^3(4x + 1)^3$

DEG:
Lead Coeff:

Algebra 2 Bellwork Friday, November 21, 2014 ANSWERS

Find the degree and leading coefficient for each polynomial.

1. $y = -2x^5 + 8x^3 + 24x^2 - 9x + 73$

DEG= 5
Lead Coeff= -2

2. $y = 10x^2 + 16x - 4x^4 + 3x^3 - 25$

DEG= 4
Lead Coeff= -4

3. $y = (x + 6)^2(2x - 7)(3x + 4)^2$

DEG= 5
Lead Coeff= 18

4. $y = -5x(2x + 7)^3(4x - 3)^2(10x + 1)$

DEG= 7
Lead Coeff= -6400

Determine if the degree of each function is ODD or EVEN and if the leading coefficient is POSITIVE or NEGATIVE.

5. $y = 8x^3(6x - 7)^2(3 - x)$

DEG: EVEN
Lead Coeff: NEG

6. $y = -6x^2(8 - 2x)^2(3x + 11)^3(4x + 1)^3$

DEG: EVEN
Lead Coeff: NEG

1