1. 
$$y = -8x^5 + 14x^3 - 7x^2 + 25$$

2. 
$$y = 43x^3 + 5x^2 - x^6 + 80x^4 - 75 + 103x$$

3. 
$$y = 6x^2 - 3x + x^3 - 5x^4 - 7x + x^4 - 8x^2$$

Find the leading coefficient and degree of each polynomial in factored form:

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

5. 
$$y = (x+6)^2(3-5x)(4x+1)^2$$

and the state of t

6. 
$$y = -10x^2(7-2x)^3(5x-9)^2(x+15)$$

What will be most important in Chapter 6 is whether the degree is Even or Odd and if the leading coefficient is Positive or Negative

For each polynomial below tell if the degree is Even or Odd and if the Leading Coefficient is Pos or Neg 8.  $y = 5x^2(3-x)(9x+2)^2(x+1)$ 7.  $y = -10x(4x + 7)(3x - 8)^3$ 

9. 
$$y = -x^3(x+8)(9x-4)^2(1-2x)^3(10-x)^2$$

10. 
$$y = 8x^4(6-7x)^2(x-3)^3(4-3x)(9x-11)^3$$

Degree : Leading Coef :

Degree: Leading Coef: