## -Notes 7.1 Polynomials

subtracted:	two o	r more mono	mials I	peing added	or
Examples: 3x <sup>4</sup> + 5x <sup>2</sup> - 7x	x + 1	4y <sup>5</sup> -	6y <sup>3</sup> + 2	2y	
		olynomial is t degree do the	_		
polynomial	Degree	Name by Degre	e Terms	Name by Terms	
7x + 4					
$3x^2 + 2x + 1$					
4x <sup>3</sup>					
9x <sup>4</sup> + 11x <sup>3</sup> - 5x + 9					
5					†
two Examples: 'x - 2		omials beinç - 4x		d or subtrac	cted
Vhat degree thi		each binomi onomials bei			racted
Examples: 3x <sup>2</sup> + 2x - 5		x <sup>4</sup> y <sup>2</sup> + 6x <sup>2</sup> y - ′	•		

What degree does each trinomial have?

## Standard Form of a Polynomial: we order the monomials from left to right based on their degrees.

Write the following polynomials in Standard Form:  $6x^2 + 7 - 9x^4$ 

$$3y - 4 - y^3$$

$$8 + 7m$$

$$-10 + 4p^4 - 8p + 3p^2$$