Use your text	Hwk #22 tbook to help you nition of each teri	answer all the	Spring 2 questions			monomial:
2. Polynomia	al:			Give two exa	mples of a po	olynomial:
3. a. The ex	ponents of mono	omials and polyr	nomials m	nust be what k	kind of numbe	ers?
b. The coe	efficients of a pol	ynomial must be	e what kir	nd of numbers	s?	
4. What doe	s a polynomial in	standard form	look like?			
5. The leadir	ng coefficient of a	ı polynomial is				
6. The degre	ee of a polynomia	ll is		·		

7. Complete these two tables by filling in the blanks.

Degree of Polynomial	Name by Degree
0	-
1	
2	
3	

# of terms in polynomial	Name by # of terms
1	
2	
3	

- 8. Is each of the below a polynomial? If not give a reason.
- a) $y = \frac{3}{7}x^2 + 3x 14x^4 + 4$

b) $y = 4x^{-2} + x^3 - \frac{8}{x}$

c) $y = 9\sqrt{x} + 3x^7 - x^{\frac{2}{3}}$

- d) $y = 9^x + 10ix^4 15$
- 9. Write each polynomial in standard form and state the degree, leading coefficient, and its name by both the degree and number of terms.
- a) $9x + 2 x^2$

b) $15 + 8x^3 - 3(x+5)$

Standard Form:

Standard Form:

Degree:

Degree:

Leading Coefficient=

Leading Coefficient=

Name by Degree:

Name by Degree

Name by # of terms:

Name by # of terms:

10. State the degree of each polynomial.

Polynomials in Expanded Form:

a)
$$7x^2 + 12 - 13x^4 + 8x$$

b)
$$9x + 1$$

c) 6

Degree:

Degree:

Degree:

Polynomials in Factored Form:

d)
$$(x+3)(2x-1)$$

e)
$$(x-7)^2(x-5)$$

Degree:

Degree: