Identify the degree of each monomial.

1) $6x^2$

2) $3p^3m^4$

3) $2x^8y^3$

Rewrite each polynomial in standard form. Then identify the leading coefficient, degree, and number of terms. Name the polynomial.

4) $6+7x-4x^3+x^2$

5) $x^2 - 3 + 2x^5 + 7x^4 - 12x$

Standard Form:

Standard Form:

Leading Coefficient: _____

Leading Coefficient: _____

Degree: _____

Degree: _____

Number of Terms: _____

Number of Terms: _____

Name:

Name: _____

Add or subtract. Write your answer in standard form.

6)
$$(2x^2-2x+6)+(11x^3-x^2-2+5x)$$

7)
$$(x^2-8)-(3x^3-6x-4+9x^2)$$

Answer:

Answer:

8)
$$(5x^4 + x^2) + (7 + 9x^2 - 2x^4 + x^3)$$

9)
$$(12x^2+x)-(6-9x^2+x^7-8x)$$

Answer: _____

Answer: _____

zeros.	
$10) f(x) = x^3 + 2x^2 - 3$	$11) f(x) = x^4 - 5x^2 + 1$
Description:	Description:
Number of Real Zeros:	Number of Real Zeros:
12) Kyle Schwarber gets a hit every time he is u approximated by $h(t) = -16t^2 + 100t + 5$, where a) Evaluate $h(t)$ for $t = 3$ and $t = 5$	p to bat in the world series. The height of his hits, <i>h</i> , can be <i>t</i> is measure in seconds.
b) Describe what the values of the function	from part a represent.

Graph each polynomial function on a calculator. Describe the graph, and identify the number of real