

Practice 12.3

Name(s) _____

Complete the table for the polynomial.

1) $10x^2 + 3x + 13$

Term	Coefficient
$10x^2$?
?	3
13	?

Find the degree of the following polynomial and determine whether it is a monomial, binomial, trinomial, or none of these.

2) $-13y^5 - 2$

3) $-12y^4 + 9y^3 - 4$

Find the value of the polynomial at the given replacement values.

4) $-2x^2 + 9x + 1$ when $x = -2$

5) $-10 - x^3 - x^2$ when $x = 5$

Simplify the following by combining like terms.

6) $2m^7 + 3m^7$

7) $-7r + 12r^4 - 7r^4 + 10r$

Simplify the polynomial by combining like terms.

8) $14x^2 - 15xy - 19y^2 - 6xy$

Write the polynomial in descending powers of the variable with no missing powers.

9) $x^3 + 8$

10) $8x + 6x^4$

Write the perimeter of the figure as a polynomial. Then simplify the polynomial.

11)



$(4x + 10)$ units

$(x^2 - x + 13)$ units

Answer Key

Testname: M050_12.3WKS

	Term	Coefficient
1)	$10x^2$	10
	$3x$	3
	13	13
2)	5; binomial	
3)	4; trinomial	
4)	-25	
5)	-160	
6)	$5m^7$	
7)	$3r + 5r^4$	
8)	$14x^2 - 21xy - 19y^2$	
9)	$x^3 + 0x^2 + 0x + 8$	
10)	$6x^4 + 0x^3 + 0x^2 + 8x + 0$	
11)	$(2x^2 + 6x + 46)$ units	