Beginning Algebra	Name:
Study Guide 13	Class:
Due Date:	Score:
	o Work ⇔ No Points
Use Pencil ($Only \Leftrightarrow Be Neat \& Organized$
1. Name the following polynomia	al:
(a) (1 point) $5x^3 - 27x$	
	(a)
(b) (1 point) $2x^2 - 45x + 10$	(u)
() (1 · 1) 100 15	(b)
(c) (1 point) $-100x^{15}$	
	(c)
2. Give the degree and coefficient	at of the following:
(a) (2 points) $-15x^3$	
(b) (2 points) $100x^7y^8z$	(a)
(b) (2 points) 100a y z	
	(b)
(c) (2 points) -1000	
	(c)

3. ____

4. (3 points) Complete the following table for the polynomial $5x^3 - x^2 + 10x$, then				
give the degree and the leading coefficient of the polynomial.				

Monomial	Coefficient	Degree

4.

5. (4 points) Complete the following table for the polynomial $-3x^3y^2-x^2y^8-2015+10xy$, then give the degree and the leading coefficient of the polynomial.

Monomial	Coefficient	Degree

5

6. (2 points) Evaluate $-3x^4 + 25x + 99$ if x = -2.

6. _____

7. (1 point) What is the degree of a constant monomial?

7. _____

- 8. Simplify:
 - (a) (2 points) $(3x^2 5x + 7) + (-8x^2 5x 7)$
 - **(b)** (2 points) $(3x^2 5x + 7) (-8x^2 5x 7)$

(a) _____

(c) (2 points) $-3x^3y^4(5x^2y - 8xy^4)$

(b) _____

(d) (2 points) (3x-7)(2x+5)

(c) _____

(e) (2 points) $(3x-5)^2$

(d) _____

(f) (2 points) $(5x^3 - 7y^2)(5x^3 + 7y^2)$

(e) _____

(g) (2 points) $(4x-3)(16x^2+12x+9)$

(f) _____

(g) _____

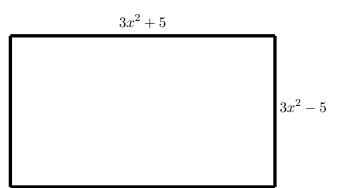
9. (3 points) Simplify:
$$(5.8 \times 10^{-15}) \bullet (8.5 \times 10^{-5})$$

9.

10. (3 points) Simplify:
$$\frac{1.2 \times 10^{-18}}{6 \times 10^{15}}$$

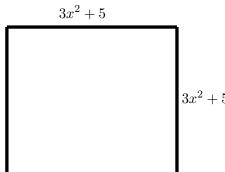
10. _____

11. (4 points) Find an expression in simplest form for the area and the perimeter of the shape below.



11. _____

12. (4 points) Find an expression in simplest form for the area and the perimeter of the shape below.



12. _____