**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_**

**Unit 1C Test Form A**

**For problems 1-13, simplify the following expressions. Write the answers in standard form.**

1. $\left(7x^{2}-8x-3\right)-(9x+9x^{2}-8)$ 2. $(x-5)(x+5)$

3. $\left(-3x+6x^{3}-4\right)+(5x^{2}-8x+11)$ 4. $(6x-3)(2x+5)$

5. $x^{3}(4x^{2}+7x-8)$ 6. $\left(9x+20\right)+(-5x-4)$

7. $\left(-2+6x\right)-\left(-x+10\right)$ 8. $\left(x+4\right)\left(x+2\right)$

9. $\left(6x-4\right)\left(3x-2\right)$ 10. $\left(9+5x^{4}\right)-\left(6x^{4}+5x^{2}-8\right)$

11. $\left(7n^{3}+8n^{2}-1\right)+\left(3n^{3}+6\right)$ 12. $5y\left(4x+y\right)$

13. $\left(x-6\right)^{2}$

14. Identify the following, given the polynomial: $-4x^{6}+5x^{3}+10$

 How many terms? \_\_\_\_\_\_\_\_\_\_\_\_ What is the constant? \_\_\_\_\_\_\_\_\_\_

 What are the coefficients: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is the degree? \_\_\_\_\_\_\_\_\_

15 - 18. Classify the following polynomials.

 By Degree By # of Terms

15. $6x^{2}-1$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. $-8$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. $7x^{3}+x^{2}-4$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. $5x+3$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19. Create a polynomial that has 3 terms, with a degree of 4, and a leading

 coefficient of 5. Write the polynomial in standard form.

20. Find the Perimeter of the shape below:

 $5x-4$

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 == == $11x+3$

 $14x+27$

 A. $32x+12$

 B. $46x+25$

 C. $50x+11$

 D. $64x+24$

21. Find the perimeter.

 $5x+3$ $8x+15$

 $2x-5$

22 & 23. Find the area and perimeter of the following. Show your work.

 $ 5x$

$ 5x$ $5x$

 $5x$

22. Area = 23. Perimeter =

24 & 25. Find the area and perimeter of the Rectangle below. Show your work.

 $\left(x^{2}-x+2\right)$

 $ 3x$

24. Area = 25. Perimeter =