Algebra 1 Name_____ ID: 1

WS Unit 6: Lesson 2B and Lesson 3

Date_____ Period____

Find each product.

1) $(x+2)(2x^2-8x+6)$

2) $(8k-2)(4k^2+3k+3)$

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

4) $(7n-8)(2n+5)$

5) $(7n-6)(2n-5)$

6) $(8v-5)(5v+3)$

7) $(5r+6)(4r-1)$

8) $(-2x^2-1)^2$

9) $(-4a-5)(-4a+5)$

10) $(n-4)(n+4)$

11) $(4n+3)(4n-3)$

12) $(3+7n)(3-7n)$

13) $(3x-4)^2$

14) $(6k+5)^2$

15) $(8a-1)^2$

16) $(2b-6)^2$

Put into standard form. Then, name each polynomial by degree and number of terms. Also provide the leading coefficient.

17) 10

18) $7-3m^2-3m$

Simplify each expression.

19) $(k + 6k^4 - 8) - (3 - 5k - 6k^4)$

20) $(4x^2 + 5x^4 - 7x^3) + (3x^3 - 6x^4 - x^2)$

Solve each equation by factoring.

21) $(5x + 1)(x - 5) = 0$

22) $(x - 5)(7x - 4) = 0$

23) $(x + 2)(x - 1) = 0$

24) $(r + 7)(3r + 1) = 0$

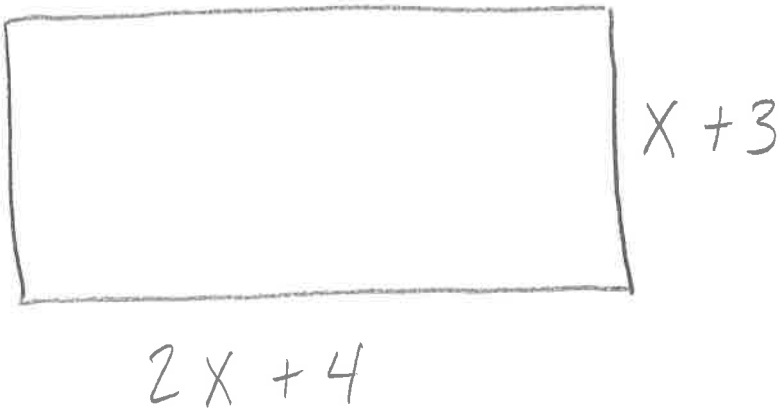
25) $(p - 1)(7p - 3) = 0$

26) $n(n - 1) = 0$

27) $x(x - 6) = 0$

28) $(a + 2)(a - 3) = 0$

(29) Rectangle



a) Write a polynomial to represent the perimeter.

b) Write a polynomial to represent the area. (Area = base x height)