

WS Unit 6 Lesson 2A: Multiplying Polynomials

Date _____ Period _____

Put each polynomial in standard form. Then, name each polynomial by degree and number of terms. Give the leading coefficient.

1) $-5 + x$

2) $-5k + 8k^2 + 9$

Find each product.

3) $4m^4(6m - 1)$

4) $2p^4(3p - 4)$

5) $3a^3(a^2 + 6a - 2)$

6) $3v(v^2 + 6v - 7)$

7) $(r + 3)(r - 1)$

8) $(2x - 3)(2x - 1)$

9) $(p - 3)(3p - 3)$

10) $(b - 2)(b + 2)$

11) $(x - 2)(3x - 2)$

12) $(2a - 3)(3a - 2)$

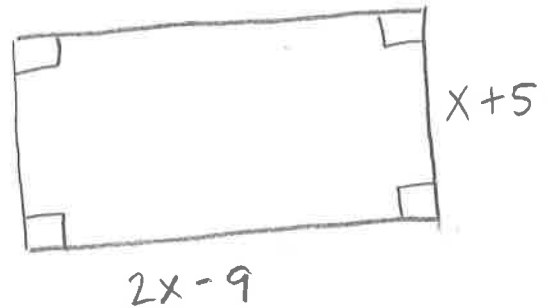
Simplify each expression.

13) $(7 + 3a^2) + (5 + 7a^4 - 2a^2)$

14) $(4 - 4v^4 + 6v) - (8v + 3 + 2v^4)$

15) Write a simplified polynomial to represent:

a) Perimeter of the Rectangle



b) Area of the Rectangle
(Area = base \cdot height)