Algebra 1 Name_____ ID: 1

Alg I Multiplying Special Cases Practice

Date_____ Period____

The New: Find each product.

1) $(8n + 7)(8n - 7)$

2) $(4 + 8a)^2$

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

4) $(6v - 5)^2$

5) $(3x - 7y)^2$

6) $(7x - 8y)(7x + 8y)$

The Review: Find each product.

7) $(5r + 7)(6r + 8)$

8) $(5n + 2)(6n - 2)$

The Review: Simplify each expression.

9) $(3 + m^3 + 6m^2 + 4m^4) + (7m + 3m^3 + 4m^2 + 7)$

10) $(7 + 4m^4 - m - 5m^2) - (3m - m^3 - m^2 - 3m^4)$

Name each polynomial by degree and number of terms.

11) $9v + 7$

12) $-6m^2 + 10 + 8m$

13) $5r^5$

14) $-4p^2 - p^3 - 4 + 10p$

Simplify. Your answer should contain only positive exponents.

15) $(2x^{-3}y^0)^0 \cdot x^{-1}$

16) $(u^2v^{-3})^4 \cdot 2u^4v^{-2}$

Answers to Alg I Multiplying Special Cases Practice (ID: 1)

1) $64n^2 - 49$
2) $16 + 64a + 64a^2$
3) $9x^2 - 6x + 1$
4) $36v^2 - 60v + 25$
5) $9x^2 - 42xy + 49y^2$
6) $49x^2 - 64y^2$
7) $30r^2 + 82r + 56$
8) $30n^2 + 2n - 4$
9) $4m^4 + 4m^3 + 10m^2 + 7m + 10$
10) $7m^4 + m^3 - 4m^2 - 4m + 7$
11) linear binomial
12) quadratic trinomial
13) quintic monomial
14) cubic polynomial with four terms
15) $\frac{1}{x}$
16) $\frac{2u^{12}}{v^{14}}$