

Algebra II
Polynomial Operations Day 2
Homework

Name: _____
Period: _____ Date: _____

Multiply.

1. $(4a + 3)(2a^2 - 8a + 9)$

2. $(5x + 3)(x - 7)(5x - 3)$

3. $6x^2 - 3(x^2 - 3x) + 5(-x + 3) - 9$

4. $(2x + 1)(3x + 7) - (17x + 7)$

Write in standard form. Find the leading coefficient, and degree.

	Standard Form:	LC:	Degree:
5. $4x^2 + 6x^5 - 2x^8$	_____	_____	_____
6. $3x - x^6 - 2x^3$	_____	_____	_____
7. $-4x^3y + 7x^4y^2 - 3xy^2$	_____	_____	_____
8. $2x^7 - 4x^2 + x^4$	_____	_____	_____

Factor completely.

9. $x^2 - 64$ _____

10. $x^2 - 121$ _____

11. $x^2 - 169$ _____

12. $x^2 - 36$ _____

13. $4x^2 - 100$ _____

14. $16x^2 - 25$ _____