

Name _____

Polynomials Take-Home Assessment

Due Friday, April 28, 2006

For questions 1-4, multiply. Write your answer in simplified *standard* form.

1. $3b^2(4b - 7)$

2. $(4c + 7)(4c - 7)$

3. $(2x - 5)(3x + 4)$

4. $(2w - 5)^2$

5. Multiply $(2x + 3)(x + 4)$ and write your answer in simplified standard form using:
- Area Method
 - FOIL Method
 - Vertical Method

For problems 6-7, factor the polynomial using the GCF method.

6. $5a^5 - 20a^4 + 25a^2$

7. $12k^4 + 18k^2$

For problems 8-11, factor the polynomial into binomials.

8. $x^2 + 6x + 9$

9. $2j^2 - 5j - 18$

10. $12y^2 + 17y - 7$

11. $16h^2 - 36$

12. Factor $3b^3 - 15b^2 + 4b - 20$ by grouping.

