

Name: _____

Date: _____ Bell: _____

Algebra I

Unit : Polynomials & Factoring

Factoring by GCF, Difference of Squares, & Basic Trinomials

Factor the following polynomials by finding a GCF.

1. $28c - 12$

2. $x^2y + x$

3. $10m^2n + 30mn^2 + 5mn$

4. $72a^5b^3c - 32a^3b^2c^2$

1. _____
2. _____
3. _____
4. _____

Factor the following difference of squares. *Check for a GCF.

5. $x^2 - 225$

6. $81 - 4y^2$

7. $9k^4 - 25$

8. $2x^3 - 200x$

9. $72y^4 - 18y^2$

10. $49x^3 - xy^2$

5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Factor the following trinomials. *Check for a GCF.

11. $p^2 - 13p + 30$

12. $n^2 - 8n - 65$

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

14. $5w^2 - 15w - 20$

15. $2v^2 - 22v + 20$

16. $a^3 + 8a^2 - 84a$

11. _____
12. _____
13. _____
14. _____
15. _____
16. _____