

Mixed Review on Factoring

Name _____ Date _____

Factor completely. If the polynomial cannot be factored, write prime.

1. $5a^2 - 15$

2. $16wv^4 + 12w^3v^2$

3. $7x^3 + 28x^2$

4. $6xy^2 - 3xy + 8y - 4$

5. $x^3 + x^2 + 5x + 5$

6. $4k^3 + 8k^2 + 9k + 18$

7. $p^2 - 14p + 49$

8. $m^2 - 16m + 64$

9. $w^2 - 2w + 1$

10. $b^2 - 7b + 10$

11. $2x^2 + 20x + 50$

12. $5k^2 + 50k + 125$

$$13. 169 - w^2$$

$$14. 4a^2 - 49$$

$$15. a^4 - b^4$$

$$16. 81p - p^3$$

$$17. 4b^2 + 9c^2$$

$$18. 5m^{10} - 5m^2n^8$$

$$19. 2y^2 - 8y + 5$$

$$20. 5r^2 - 14r - 3$$

$$21. 5x^2 + 6x + 1$$

$$22. 4x^2 + 6x - 54$$

$$23. 6c^2 + 7c + 2$$

$$24. 6m^2 + 4m - 10$$

$$25. 2x^2 - 2x - 12$$

$$26. 25w^2 - 20w + 4$$

$$27. x^2 + 100$$