

Secondary Math III
Factoring/Operations Review
Assignment 1.3

Name: _____
Period: _____

Factor the trinomial. Remember to factor out common factors first and factor out a negative if the leading coefficient is negative. If the polynomial cannot be factored, write “prime”.

1. $k^2 + 11k + 30$

2. $p^2 - 12p + 27$

3. $x^2 + 7x - 18$

4. $p^2 - 5p - 18$

5. $-6m^2 - 12m + 18$

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

7. $t^2 + 5t - 36$

8. $-a^2 + 2a + 35$

9. $-9w^3 - 36w^2 + 189w$

10. $2x^3 - 48x^2 + 288x$

11. $6m^2n - 24mn - 30n$

12. $2x^2 + x - 6$

13. $3b^2 - 8b + 5$

14. $10x^2 + 3x - 18$

15. $14c^2 - 17c - 6$

16. $-6m^2 - 13m + 5$

17. $6x^2 + 5x - 4$

18. $p^2 - 121$

19. $25x^2 - 4$

20. $16h^2 - 25$

21. $2x^2 - 32$

22. $x^2 - 4y^2$

23. $5x^3 - 125x$

24. $8x^3 + 2x$

Review: Add, subtract, or multiply as indicated

25. $(4r^3 + 3r^4) - (r^4 - 5r^3)$

26. $(5p^2 - 3) + (2p^2 - 3p^3)$

27. $(x + 2)(3x + 4)$

28. $2(x + 3)^2 - 7$