

Factoring Completely Using all Methods

Name _____

Remember that Parentheses should be **Relatively Prime** in final answers.

1. $12x^3 + 2x^2 - 30x - 5$
2. $625 - 81w^4$
3. $15n^2 - 27n - 6$
4. $p^2 + 12p + 27$
5. $5y^2 - 22y + 8$
6. $2t^2 - t - 10$
7. $25v^3 + 5v^2 + 30v + 6$
8. $10v^5 - 30v^4$
9. $4f^2 + 52f + 25$
10. $3x^3 + 3x^2 - 36x$
11. $441m^2 - 169$
12. $y^2 - y - 6$
13. $5x^4 - 10x^3 - 75x^2$
14. $21xy - 12b^2 + 14xb - 18by$
15. $a^2 - 2a - 35$
16. $m^2 - 36$
17. $x^2 + 21x - 100$
18. $9k^2 + 66k + 21$
19. $a^2 + a - 12$
20. $2a^3 + 8a^2 - 64a$
21. $6g^2 - 17g + 12$
22. $28v^3 + 16v^2 - 21v - 12$
23. $30y^2 + 10y - 20$
24. $4n^2 - 15n - 25$
25. $y^2 + 14y + 49$
26. $18a^2 - 50$
27. $4a^2 - 20a + 25$
28. $30uv + 30u + 36u^2 + 25v$
29. $75 - 3x^2$
30. $3x^4 - 21x^3 + 10x^2$
31. $b^2 + 9b + 20$
32. $225r^2 - 210r + 49$
33. $28y^6x - 35y$
34. $3x^2 - 3x - 60$
35. $12p^3 - 21p^2 + 28p - 49$
36. $15x^2 - 19x + 6$