

Algebra 2
Finding a Common Factor

Name: _____
Period: _____

Factor completely.

1. $45x^2 - 25$
2. $56 - 35p$
3. $50x - 80y$
4. $7ab - 35a^2b$
5. $27x^2y^5 - 72x^3y^2$
6. $-3a^2b + 6a^3b^2$
7. $8x^3y^2 + 4x^3$
8. $-5x^2 - 5x^3 - 15x^4$
9. $-32n^9 + 32n^6 + 40n^5$
10. $20x^4 - 30x + 30$
11. $21p^6 + 30p^2 + 27$
12. $28m^4 + 40m^3 + 8$
13. $-10x^4 + 20x^2 + 12x$
14. $30b^9 + 5ab - 15a^2$
15. $27y^7 + 12y^2x + 9y^2$
16. $-48a^2b^2 - 56a^3b - 56a^5b$
17. $30m^6 + 15mn^2 - 25$
18. $20x^8y^2z^2 + 15x^5y^2z + 35x^3y^3z$
19. $3p + 12q - 15q^2r^2$
20. $50x^2y + 10y^2 + 70xz^2$
21. $30y^4z^3x^5 + 50y^4z^5 - 10y^4z^3x$
22. $30qpr - 5qp + 5q$
23. $28b + 14b^2 + 35b^3 + 7b^5$
24. $-18n^5 + 3n^3 - 21n + 3$
25. $30a^8 + 6a^5 + 27a^3 + 21a^2$
26. $-40x^{11} - 20x^{12} + 50x^{13} - 50x^{14}$
27. $-24x^6 - 4x^4 + 12x^3 + 4x^2$
28. $-32mn^8 + 4m^6n + 12mn^4 + 16mn$
29. $-10y^7 + 6y^{10} - 4y^{10}x - 8y^8x$

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