

Factoring Polynomials

Factoring Polynomials: GCF, Difference of Squares, Quadratics with $a = 1$ & $a \neq 1$, U-Substitution, Sum of Cubes, Difference of Cubes, & Polynomials by Grouping - Accuracy

Rewrite each polynomial pulling out the GCF of each:

1. $36t^4 + 24t^2$	2. $11y^3 - 22y^2 + 11y$
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Completely Factor each of the following Difference of Squares:

3. $z^2 - 225$	4. $100x^2 - 81$
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Completely Factor each of the following Quadratics with $a = 1$:

5. $t^2 - 24t + 135$	6. $x^2 + 4x - 32$
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Completely Factor each of the following Quadratics with $a \neq 1$:

7. $-4r^2 - 18r - 18$	8. $9a^2 - 6a - 24$
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Completely factor each of the following using U-Substitution:

9. $x^4 + 5x^2 + 6$	10. $6x^4 - 19x^2 - 7$
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Completely factor each of the following using SOAP:

11. $x^3 + 1728$	12. $8x^3 + 3375$
13. $x^3 - 2744$	14. $729x^3 - 216$

Completely factor each of the following by Grouping:

15. $c^3 + 7c^2 + 5c + 35$	16. $5n^3 - 4n^2 + 25n - 20$
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