

***Goal**

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|---------------------------------|-----------------|-----------------|
| <p>*Sum of Two Cubes</p> | <p>*Algebra</p> | <p>*Example</p> |
| <p>*Difference of Two Cubes</p> | <p>*Algebra</p> | <p>*Example</p> |

Always look for common factors first!

Factor the polynomial.

2. $125x^3 + 8$

4. $27x^3 - y^3$

6. $2x^3 - 10x^2 + 8x$

8. $54x^4 - 16x$

*Factor by Grouping (example)

Factor the polynomial by grouping.

10. $x^3 - 4x^2 - 25x + 100$

12. $4x^3 - 5x^2 + 8x - 10$

Solve the equation by factoring.

14. $3x^3 - 30x = 9x$

16. $x^3 - 7x^2 = 5x - 35$

Inclass: p. 326-327 #32, 38, 44, 55ab

Homework: p. 326-327 #15-43(odd), 55ab