

Factor the sum or difference of two cubes. Make sure to factor out the GCF or CMF first before factoring the cubes.

1. $x^3 - 8$

2. $y^3 - 27$

3. $8x^6 + 27y^6$

4. $y^3 + 8$

5. $4a^3 - 256$

6. $x^3 - 125$

7. $8 - a^3$

8. $8x^3 - 125y^3$

9. $x^3 + 27$

10. $2a^6 + 16b^6$

11. $x^3 - 216$

12. $250a^3 - 16b^3$

13. $216a - a^4$

14. $64a^6 - 125b^6$

15. $2x^3y + 128y$

16. $2a^3b^4 + 250b^4$

17. $xy^3 + 216x$

18. $a^3b^6 - a^6b^3$

19. $8a^3b^3 - 27x^3$

20. $128p^3r^3 + 250q^3r^3$