

Factoring Patterns

Factor (fully factor, of course!)

1. $a^2 - 1$

2. $b^2 - 4$

3.^a $c^2 - 100$

3.^b $d^2 - 49$

3.^c $e^2 - 121$

3.^d $16 - f^2$

4. $25 - g^2$

5. $81 - h^2$

6.^a $-25 + f^2$

6.^b $-h^2 + 49$

6.^c $-121 + a^2$

6.^d $-b^2 + 36$

7. $4x^4 - 9x^2$

8. $25a^4 - a^2$

9. $\frac{1}{4} - x^2$

10. $4a^2 - \frac{1}{a}$

11. $\frac{4}{9} - 16n^2$

12. $\frac{121}{9} - \frac{x^2}{16}$

13. $64y^2 - 16$

14. $9 - \frac{b^2}{16}$

15. $x^2 - 0.04$

16. $p^2 - 1.44$

17. $3a^3 - 75a$

18. $0.3a^2 - 1.2$

19. $1 - 0.64a^2$

20. $54a^4 - 6$

21. $(x - y)^2 - 1$

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$$22. (2t+1)^2 - (2t-1)^2$$

$$23. (2a+3)^2 - (2a-3)^2$$

$$24. 5a^4 - 80$$

$$25. 3x^4 - 75$$

$$26. 4s^2 - 81t^2$$

$$27. 4e^2 - 225f^2$$

$$28. 12x^3 - 27x$$

$$29. x^4 - 13x^2 + 36$$

$$30. 25m^2 - \frac{1}{4}n^2$$

$$31. a^2 - (b-c)^2$$

$$32. (2c-5)^2 - 121$$

$$33. -98m^3 + 32m$$