

Can you factor these by Greatest Common Factor?

1. $4x - 36$

2. $14a^2b^3 - 28ab^5$

3. $-c^3 - 8c$

4. $7y^2 - 8xy - 9y$

Can you factor a Trinomial *without* a leading coefficient?

5. $w^2 - 16w - 36$

6. $x^2 + 3x - 18$

7. $y^2 - 35y + 300$

8. $z^2 + 9z - 32$

Can you factor a Trinomial *with* a leading coefficient?

9. $3x^2 + 8x + 5$

10. $6x^2 - 7x - 5$

11. $2x^2 - x - 21$

Can you factor these other cases?

12. $x^2 - 25$

13. $ab - 3a + 3b - b^2$

14. $12x^3 + 2x^2 - 18x - 3$

15. $4w^2 - 100$

Can you figure out how to factor ANY given polynomial by putting all the steps together?

16. $x^2 - 8x + 16$

17. $4w^2 - 32w + 60$

18. $15m^4n^2 - 20m^3n^2 + 45m^2n$

19. $3z^2 + 27$

20. $12x^3y + 10x^2y - 8xy$

21. $24x^3 - x^2 - 10x$

22. $10w^2 - 9w + 6$

23. $20z^2 - 5$

*24. $x^4 - 13x^2 + 36$