

Factoring Trinomials of the form $ax^2 + bx + c$

Factor completely.

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| 1. $2x^2 + 5x + 3$ | 27. $22x^2 - 29x - 6$ |
| 2. $2x^2 + 5x + 3$ | 28. $20x^2 + 7x - 6$ |
| 3. $2y^2 - 13y + 21$ | 29. $2x^2 - 4xy - 6y^2$ |
| 4. $2y^2 + 11y + 15$ | 30. $2x^2 + 11xy + 12y^2$ |
| 5. $2x^2 + 7x - 15$ | 31. $3x^2 - 28xy + 32y^2$ |
| 6. $2x^2 - 9x - 15$ | 32. $3x^2 + 18xy - 10y^2$ |
| 7. $2x^2 + 3x - 20$ | 33. $5x^2 + 27xy + 10y^2$ |
| 8. $2x^2 + 11x - 21$ | 34. $5x^2 - 6xy - 8y^2$ |
| 9. $3y^2 + 12y - 10$ | 35. $7x^2 - 10xy + 3y^2$ |
| 10. $3x^2 + 17x - 20$ | 36. $6x^2 + 7xy - 3y^2$ |
| 11. $3y^2 - 17y - 28$ | 37. $2x^2 + 5x^2 - 12x$ |
| 12. $3y^2 + 12y + 14$ | 38. $3x^2 - 10x^2 + 20x$ |
| 13. $3y^2 - 23y + 24$ | 39. $20x^2 - 12x^2 - 16x$ |
| 14. $3x^2 - 12x - 32$ | 40. $6x^2 - 10x^2 - 4x$ |
| 15. $3y^2 + 17y + 14$ | 41. $18x^2 - 21x^2 - 9x$ |
| 16. $3y^2 + 11y - 12$ | 42. $12x^2 - 16x^2 - 12x$ |
| 17. $4x^2 + 25x + 25$ | 43. $12x^2 - 22x^2 + 9x$ |
| 18. $4y^2 + 9y - 12$ | 44. $15x^2 - 18x^2 - 24x$ |
| 19. $4y^2 + 4y - 15$ | 45. $5x^2y - 10x^2y^2 - 15xy^2$ |
| 20. $4x^2 - 4x - 75$ | 46. $6x^2y + 25x^2y^2 + 4x^2y^3$ |
| 21. $6x^2 + 7x - 20$ | 47. $12x^2y^2 + 11x^2y^2 + 2x^2y^2$ |
| 22. $6y^2 + 5y - 21$ | 48. $12x^2y^2 + 28x^2y^2 + 3xy^2$ |
| 23. $6y^2 + 14y - 15$ | 49. $-x^2 - 5x^2 - 6x$ |
| 24. $8x^2 + 6x - 5$ | 50. $-y^2 + 3y^2 - 2y$ |
| 25. $12y^2 - y - 6$ | 51. $-6x^2 - 5x + 6$ |
| 26. $15y^2 + y - 2$ | 52. $-8x^2 + 10x^2 + 7x^2$ |