

Practice 9-6**Factoring Trinomials of the Type $ax^2 + bx + c$** **Factor each expression.**

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|------------------------|------------------------|------------------------|
| 1. $2x^2 + 3x + 1$ | 2. $2x^2 + 5x + 3$ | 3. $2n^2 + n - 6$ |
| 4. $3x^2 - x - 4$ | 5. $2y^2 - 9y - 5$ | 6. $5x^2 - 2x - 7$ |
| 7. $7n^2 + 9n + 2$ | 8. $3c^2 - 17c - 6$ | 9. $3x^2 + 8x + 4$ |
| 10. $6x^2 - 7x - 10$ | 11. $3x^2 - 10x + 8$ | 12. $3y^2 - 16y - 12$ |
| 13. $5x^2 + 2x - 3$ | 14. $3x^2 + 7x + 2$ | 15. $7x^2 - 10x + 3$ |
| 16. $3x^2 + 8x + 5$ | 17. $2x^2 + 9x + 4$ | 18. $5x^2 - 7x + 2$ |
| 19. $5x^2 - 22x + 8$ | 20. $4x^2 + 17x - 15$ | 21. $5x^2 - 33x - 14$ |
| 22. $3x^2 - 2x - 8$ | 23. $3y^2 + 7y - 6$ | 24. $2x^2 + 13x - 24$ |
| 25. $4y^2 - 11y - 3$ | 26. $2y^2 + 9y + 7$ | 27. $5y^2 - 3y - 2$ |
| 28. $7y^2 + 19y + 10$ | 29. $7x^2 - 30x + 8$ | 30. $3x^2 + 17x + 10$ |
| 31. $2x^2 + 5x - 3$ | 32. $2x^2 - 5x + 3$ | 33. $3x^2 + 10x + 3$ |
| 34. $2x^2 - x - 21$ | 35. $5x^2 - 11x + 2$ | 36. $4x^2 + 4x - 15$ |
| 37. $6x^2 - 19x + 15$ | 38. $2x^2 - x - 15$ | 39. $3x^2 - 7x - 6$ |
| 40. $2x^2 - 5x - 12$ | 41. $6x^2 - 7x - 5$ | 42. $4x^2 + 7x + 3$ |
| 43. $12y^2 - 7y + 1$ | 44. $6y^2 - 5y + 1$ | 45. $6x^2 - 11x + 4$ |
| 46. $12x^2 + 19x + 5$ | 47. $7y^2 + 47y - 14$ | 48. $11x^2 - 54x - 5$ |
| 49. $15x^2 - 19x + 6$ | 50. $8x^2 - 30x + 25$ | 51. $14y^2 + 15y - 9$ |
| 52. $22x^2 + 51x - 10$ | 53. $14x^2 - 41x + 15$ | 54. $8y^2 + 17y + 9$ |
| 55. $8x^2 + 65x + 8$ | 56. $20x^2 + 37x + 15$ | 57. $24y^2 + 41y + 12$ |
| 58. $18x^2 - 27x + 4$ | 59. $10x^2 + 3x - 4$ | 60. $10y^2 - 29y + 10$ |