

**Practice 8-6****Factoring Trinomials of the Type  $ax^2 + bx + c$** **Factor each expression.**

- |                        |                        |                        |
|------------------------|------------------------|------------------------|
| 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. $10y^2 - 29y + 10$ |

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