

Practice 5-4**Factoring Quadratic Expressions**

Factor each expression completely.

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|-----------------------|-----------------------|-----------------------|
| 1. $x^2 + 4x + 4$ | 2. $x^2 - 7x + 10$ | 3. $x^2 + 7x - 8$ |
| 4. $x^2 - 6x$ | 5. $2x^2 - 9x + 4$ | 6. $x^2 + 2x - 35$ |
| 7. $x^2 + 6x + 5$ | 8. $x^2 - 9$ | 9. $x^2 - 13x - 48$ |
| 10. $x^2 - 4$ | 11. $4x^2 + x$ | 12. $x^2 - 29x + 100$ |
| 13. $x^2 - x - 6$ | 14. $9x^2 - 1$ | 15. $3x^2 - 2x$ |
| 16. $x^2 - 64$ | 17. $x^2 - 25$ | 18. $x^2 - 81$ |
| 19. $x^2 - 36$ | 20. $x^2 - 100$ | 21. $x^2 - 1$ |
| 22. $4x^2 - 1$ | 23. $4x^2 - 36$ | 24. $9x^2 - 4$ |
| 25. $x^2 - 7x - 8$ | 26. $x^2 + 13x + 36$ | 27. $x^2 - 5x + 6$ |
| 28. $x^2 + 5x + 4$ | 29. $x^2 - 21x - 22$ | 30. $x^2 + 13x + 40$ |
| 31. $2x^2 - 5x - 3$ | 32. $x^2 + 10x - 11$ | 33. $x^2 - 14x + 24$ |
| 34. $5x^2 + 4x - 12$ | 35. $2x^2 - 5x - 7$ | 36. $2x^2 + 13x + 15$ |
| 37. $3x^2 - 7x - 6$ | 38. $3x^2 + 16x + 21$ | 39. $x^2 + 5x - 24$ |
| 40. $x^2 + 34x - 72$ | 41. $x^2 - 11x$ | 42. $3x^2 + 21x$ |
| 43. $x^2 + 8x + 12$ | 44. $x^2 - 10x + 24$ | 45. $x^2 + 7x - 30$ |
| 46. $x^2 - 2x - 168$ | 47. $x^2 - x - 72$ | 48. $4x^2 - 25$ |
| 49. $x^2 - 121$ | 50. $x^2 + 17x + 16$ | 51. $10x^2 - 17x + 3$ |
| 52. $4x^2 + 12x + 9$ | 53. $4x^2 - 4x - 15$ | 54. $9x^2 - 4$ |
| 55. $x^2 + 6x - 40$ | 56. $2x^2 - 8$ | 57. $x^2 + 18x + 77$ |
| 58. $2x^2 - 98$ | 59. $x^2 + 21x + 98$ | 60. $x^2 + 20x + 84$ |
| 61. $9x^2 + 30x + 16$ | 62. $8x^2 - 6x - 27$ | 63. $x^2 - 3x - 54$ |
| 64. $x^2 - 169$ | 65. $25x^2 - 9$ | 66. $7x^2 + 49$ |
| 67. $2x^2 - 10x - 28$ | 68. $x^2 + 8x + 12$ | 69. $x^2 - 2x - 35$ |
| 70. $x^2 + 2x - 63$ | 71. $20x^2 - 11x - 3$ | 72. $12x^2 + 4x - 5$ |
| 73. $4x^2 - 5x - 6$ | 74. $8x^2 + 22x - 21$ | 75. $3x^2 - 3x - 168$ |