

Practice 9-5

Factoring Trinomials of the Type $x^2 + bx + c$

Factor each expression.

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|----------------------|----------------------|----------------------|
| 1. $x^2 + 8x + 16$ | 2. $d^2 + 8d + 7$ | 3. $y^2 + 6y + 8$ |
| 4. $b^2 - 2b - 3$ | 5. $s^2 - 4s - 5$ | 6. $x^2 + 12x + 32$ |
| 7. $x^2 - 9x + 20$ | 8. $x^2 - 5x + 6$ | 9. $a^2 + 3a + 2$ |
| 10. $p^2 - 8p + 7$ | 11. $d^2 + 6d + 5$ | 12. $n^2 + n - 6$ |
| 13. $x^2 + 5x - 14$ | 14. $b^2 + 9b + 14$ | 15. $x^2 + 14x + 45$ |
| 16. $a^2 + 7a + 12$ | 17. $x^2 + 13x + 22$ | 18. $x^2 + 3x - 4$ |
| 19. $x^2 - 8x + 12$ | 20. $x^2 + 7x - 18$ | 21. $n^2 - 7n + 10$ |
| 22. $s^2 - 5s - 14$ | 23. $x^2 - 9x + 8$ | 24. $x^2 - 2x - 24$ |
| 25. $x^2 - 6x - 27$ | 26. $x^2 - 16x - 36$ | 27. $x^2 + 7x + 10$ |
| 28. $x^2 - 3x - 28$ | 29. $m^2 - 4m - 21$ | 30. $x^2 - 2x - 15$ |
| 31. $x^2 - 5x - 24$ | 32. $b^2 - 4b - 60$ | 33. $x^2 - 3x - 18$ |
| 34. $m^2 + 7m + 10$ | 35. $n^2 - n - 72$ | 36. $k^2 - 6k + 5$ |
| 37. $x^2 + 9x + 20$ | 38. $x^2 - 10x + 9$ | 39. $x^2 - 8x + 16$ |
| 40. $d^2 - 4d + 3$ | 41. $b^2 - 26b + 48$ | 42. $n^2 - 15n + 26$ |
| 43. $n^2 - n - 6$ | 44. $z^2 - 14z + 49$ | 45. $x^2 + 7x + 12$ |
| 46. $x^2 - 18x + 17$ | 47. $x^2 + 16x + 28$ | 48. $t^2 - 6t - 27$ |
| 49. $b^2 + 4b - 12$ | 50. $d^2 + 11d + 18$ | 51. $x^2 + x - 20$ |
| 52. $x^2 - 13x + 42$ | 53. $x^2 + x - 6$ | 54. $x^2 + 4x - 21$ |
| 55. $a^2 + 2a - 35$ | 56. $h^2 + 7h - 18$ | 57. $x^2 + 3x - 10$ |
| 58. $p^2 - 12p - 28$ | 59. $y^2 + 6y - 55$ | 60. $b^2 + 3b - 4$ |
| 61. $x^2 + 2x - 63$ | 62. $x^2 - 2x - 8$ | 63. $x^2 - 11x - 60$ |
| 64. $r^2 + 2r - 35$ | 65. $c^2 - 3c - 10$ | 66. $x^2 + 8x + 15$ |
| 67. $x^2 - 8x + 15$ | 68. $n^2 - 23n + 60$ | 69. $c^2 + 3c - 10$ |
| 70. $x^2 - 9x + 14$ | 71. $x^2 - 10x + 24$ | 72. $x^2 + 6x - 27$ |
| 73. $y^2 - 16y + 64$ | 74. $n^2 + 10n + 25$ | 75. $r^2 - 14r - 51$ |
| 76. $x^2 + 3x - 40$ | 77. $x^2 - x - 42$ | 78. $n^2 - 2n - 63$ |
| 79. $a^2 + 7a + 6$ | 80. $x^2 - 14x + 48$ | 81. $x^2 - 11x + 28$ |
| 82. $n^2 + 16n - 36$ | 83. $n^2 - 4n - 21$ | 84. $y^2 + 16y - 17$ |

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