

Factoring**Factoring Trinomials of the Form $x^2 + bx + c$**

$$a^2 - 9a + 14 = (a - 7)(a - 2)$$

Factor.

1. $t^2 + 13t + 42 =$

2. $x^2 + x - 90 =$

3. $c^2 + c - 30 =$

4. $x^2 + 15xy + 44y^2 =$

5. $y^2 - 13y + 42 =$

6. $x^2 - x - 6 =$

7. $x^2 - 13x + 12 =$

8. $x^2 - 13x + 30 =$

9. $x^2 - 9x + 18 =$

10. $x^2 - 8x + 16 =$

11. $x^2 - 12xy + 32y^2 =$

12. $x^2 + 14x + 49 =$

13. $a^2 - 10ab - 24b^2 =$

14. $m^2 - 3mn + 2n^2 =$

15. $n^2 + 6n - 16 =$

16. $b^2 - 4b - 45 =$

17. $x^2 + 12x + 35 =$

18. $y^2 - 12y + 36 =$

19. $c^2 - 10c + 21 =$

20. $x^2 + 6x - 40 =$

Factoring**Factoring Trinomials of the Form $x^2 + bx + c$**

$$x^2 + 2x - 15 = (x + 5)(x - 3)$$

Factor.

1. $x^2 + 4x + 4 =$

2. $x^2 - 7x + 6 =$

3. $x^2 + 7x + 12 =$

4. $x^2 + 13x + 22 =$

5. $x^2 - 8x + 15 =$

6. $x^2 + 8xy - 33y^2 =$

7. $x^2 - 15x + 56 =$

8. $x^2 + 14x + 40 =$

9. $x^2 + 18x + 45 =$

10. $x^2 + 2x - 35 =$

11. $x^2 + 4x - 32 =$

12. $x^2 - 6x - 16 =$

13. $x^2 + 2xy - 63y^2 =$

14. $x^2 + 23x + 132 =$

15. $x^2 - 14x - 72 =$

16. $x^2 + 5xy + 6y^2 =$

17. $x^2 - xy - 2y^2 =$

18. $x^2 - 14xy + 24y^2 =$

19. $x^2 + 16x + 28 =$

20. $x^2 - 16x + 39 =$