

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

$$2x^2 - 8x - 10 = 2(x^2 - 4x - 5) = 2(x - 5)(x + 1)$$

Factor.

1. $12x^2 - 156x + 144 =$

$$12(x - 12)(x - 1)$$

3. $2x^2 + 9x + 10 =$

$$(2x + 5)(x + 2)$$

5. $3x^2 - 10x + 7 =$

$$(3x - 7)(x - 1)$$

7. $3x^2 - 4x - 32 =$

$$(3x + 8)(x - 4)$$

9. $3x^2 - 20x - 7 =$

$$(3x + 1)(x - 7)$$

11. $7c^2 - 16c + 9 =$

$$(7c - 9)(c - 1)$$

13. $2x^2 + 17x + 21 =$

$$(2x + 3)(x + 7)$$

15. $2y^2 - 17y + 35 =$

$$(2y - 7)(y - 5)$$

17. $4x^2 + 7x - 15 =$

$$(4x - 5)(x + 3)$$

19. $4x^2 - 23x + 15 =$

$$(4x - 3)(x - 5)$$

2. $6x^2 - 15x + 6 =$

$$3(2x - 1)(x - 2)$$

4. $4x^2 - 18x + 20 =$

$$2(2x - 5)(x - 2)$$

6. $3x^2 - 5x - 12 =$

$$(3x + 4)(x - 3)$$

8. $5x^2 + 25x + 30 =$

$$5(x + 2)(x + 3)$$

10. $6x^2 - 15x - 21 =$

$$3(x + 1)(2x - 7)$$

12. $7x^2 - 26x - 8 =$

$$(7x + 2)(x - 4)$$

14. $6a^2 - 21a + 15 =$

$$3(2a - 5)(a - 1)$$

16. $12x^2 - 6x - 18 =$

$$6(2x - 3)(x + 1)$$

18. $6x^2 - 25x - 25 =$

$$(6x + 5)(x - 5)$$

20. $3x^2 + 19x + 20 =$

$$(3x + 4)(x + 5)$$