Factoring Trinomials $A 1$

Date Period

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Factoring Trinomials

When a ≠ 1

Explained! (AC Method)

Factoring Trinomials

The Easy Fast Way

Factoring trinomials when a ≠ 1

Factoring trinomials with "a" greater than 1

Factoring

Trinomials (A=1)

Factoring trinomials with a non-1 leading coefficient by grouping

Trinomials - a = 1
Factoring Quadratic Trinomials: Part 2

Factors of Quadratic Trinomials

BOX METHOD of Factoring Polynomials.m4v

Factoring Trinomials with Leading Coefficient not 1 (fast way)

Factoring a Quadratic Equation When a is greater than 1

Factor Polynomials -
Factoring Trinomials (a = 1)

Date___________
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Factor each completely.

1) b^2 + 8b + 7
2) n^2 - 11n + 10
3) m^2 + m - 90
4) n^2 + 4n - 12
5) n^2 - 10n + 9
6) b^2 + 16b + 64
7) m^2 + 2m - 24
8) x^2 - 4x + 24
9) k^2 - 13k + 40
10) a^2 + 11a + 18
11) n^2 - n - 56
12) n^2 - 5n + 6
Factoring Trinomials (a = 1)

Factor each completely.

1) $3p^2 - 2p - 5 = (3p - 5)(p + 1)$
2) $2n^2 + 3n - 9 = (2n - 3)(n + 3)$
3) $3n^2 - 8n + 4 = (3n - 2)(n - 2)$
4) $5n^2 + 19n + 12 = (5n + 4)(n + 3)$
5) $2v^2 + 11v + 5 = (2v + 1)(v + 5)$

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Factoring Trinomials (a > 1)

7) 7a^2 + 53a + 28
   (7a + 4)(a + 7)

8) 9k^2 + 66k + 21
   3(3k + 1)(k + 7)

Factoring Trinomials (a = 1)

Check Pages 1 - 4 of

Factoring Trinomials (a = 1) Date
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PDF version. Factoring Trinomials (a = 1) Date
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**Factoring Trinomials**

**Ms. Hanif Section**

**B: Factor each polynomial**

1. \(x^2 - 7x - 18\)
2. \(x^2 - 9x + 8\)
3. \(x^2 - 18x - 63\)
4. \(x^2 - 7x + 10\)
5. \(x^2 + 3x - 40\)
6. \(h^2 + 6h - 40\)
7. \(x^2 - 7x - 18\)
8. \(a^2 - 9a + 14\)
Factoring Trinomials (a = 1)

Date ____________  Period _____
Factor each completely.

1) $b^2 + 8b + 7 = (b + 7)(b + 1)$
2) $n^2 - 11n + 10 = (n - 10)(n - 1)$
3) $m^2 + m - 90 = (m - 9)(m + 10)$
4) $n^2 + 4n - 12 = (n - 2)(n + 6)$
5) $n^2 - 10n + 9 = (n - 1)(n - 9)$
6) $b^2 + 16b + 64 = (b + 8)^2$
Factoring Trinomials (a > 1)

Date_____
Period____

Factor each completely.

1) $3p^2 - 2p - 5$

2) $2n^2 + 3n - 9$

3) $3n^2 - 8n + 4$

4) $5n^2 + 19n + 12$

5) $2v^2 + 11v + 5$

6) $2n^2 + 5n + 2$

7) $7a^2 + 53a + 28$

8) $9k^2 + 66k + ...$
Factoring Trinomials when $a = 1$

Factor each completely, if possible. If not possible write

Worksheet Factoring Trinomials $a = 1$ - Name: Date:
Factoring Trinomials \(A = 1\)

Factor each of the trinomials below.

1. \(x^2 + 5x + 6\)
2. \(x^2 + 7x + 10\)
3. \(x^2 + 8x + 15\)
4. \(x^2 + 9x + 20\)
5. \(x^2 + 10x + 21\)

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Kuta Software supplies great facts on Trinomial Factoring Calculator, subtracting fractions and rational numbers and other math subject areas. If ever you need assistance on rational functions or even inequalities, Factoring-polynomials.com is certainly the ideal place to check out!
Steps to take when Factoring Trinomials with a Leading Coefficient of One:

1. The trinomial must be in standard quadratic form: $ax^2 + bx + c$.

2. Use a game to find factors (may also need a product/sum chart).

3. Factor to root form.

4. Check!! Using FOIL.

Sign Rules:
Factoring Trinomials (a = 1)

Factor each trinomial. Write your answer in completely factored form.

1. $x^2 + 5x + 6$
2. $x^2 - 7x + 12$
3. $2x^2 + 11x + 12$
4. $3x^2 - 10x + 8$
5. $x^2 - 9x + 20$
6. $2x^2 - 7x - 15$
7. $3x^2 + 2x - 8$
8. $4x^2 + 11x + 6$
9. $5x^2 - 3x - 2$
10. $6x^2 + x - 2$

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Factoring Trinomials A 1

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