

9-4

Study Guide and Intervention

Factoring Trinomials: $ax^2 + bx + c$

Factor $ax^2 + bx + c$ To factor a trinomial of the form $ax^2 + bx + c$, find two integers, m and n whose product is equal to ac and whose sum is equal to b . If there are no integers that satisfy these requirements, the polynomial is called a **prime polynomial**.

Example 1Factor $2x^2 + 15x + 18$.

In this example, $a = 2$, $b = 15$, and $c = 18$. You need to find two numbers whose sum is 15 and whose product is $2 \cdot 18$ or 36. Make a list of the factors of 36 and look for the pair of factors whose sum is 15.

Factors of 36	Sum of Factors
1, 36	37
2, 18	20
3, 12	15

Use the pattern $ax^2 + mx + nx + c$, with $a = 2$, $m = 3$, $n = 12$, and $c = 18$.

$$\begin{aligned} 2x^2 + 15x + 18 &= 2x^2 + 3x + 12x + 18 \\ &= (2x^2 + 3x) + (12x + 18) \\ &= x(2x + 3) + 6(2x + 3) \\ &= (x + 6)(2x + 3) \end{aligned}$$

Therefore, $2x^2 + 15x + 18 = (x + 6)(2x + 3)$.

Example 2Factor $3x^2 - 3x - 18$.

Note that the GCF of the terms $3x^2$, $3x$, and 18 is 3. First factor out this GCF.

$$3x^2 - 3x - 18 = 3(x^2 - x - 6).$$

Now factor $x^2 - x - 6$. Since $a = 1$, find the two factors of -6 whose sum is -1 .

Factors of -6	Sum of Factors
1, -6	-5
-1, 6	5
-2, 3	1
2, -3	-1

Now use the pattern $(x + m)(x + n)$ with $m = 2$ and $n = -3$.

$$x^2 - x - 6 = (x + 2)(x - 3)$$

The complete factorization is $3x^2 - 3x - 18 = 3(x + 2)(x - 3)$.

Check Your Progress

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

1. $2x^2 - 3x - 2$
 $(2x + 1)(x - 2)$

2. $3m^2 - 8m - 3$
 $(3m + 1)(m - 3)$

3. $16r^2 - 8r + 1$
 $(4r - 1)(4r - 1)$

4. $4x^2 + 5x - 6$
 $(2x + 3)(3x - 2)$

5. $3x^2 + 2x - 8$
 $(3x - 4)(x + 2)$

6. $18x^2 - 23x - 5$
 $(3x - 5)(6x + 1)$

7. $3a^2 + 5a + 2$
 $(2a + 3)(a + 1)$

8. $18y^2 + 9y - 5$
 $(6y + 5)(3y - 1)$

9. $-4c^2 + 19c - 21$
 $(4c - 7)(3 - c)$

10. $8x^2 - 4x - 24$
 $(4x - 8)(2x + 3)$

11. $28p^2 + 60p - 25$
 $(2p + 5)(14p - 5)$

12. $48x^2 + 22x - 15$
 $(6x + 5)(8x - 3)$

13. $3y^2 - 6y - 24$
 $3(y + 2)(y - 4)$

14. $4x^2 + 26x - 48$
 $2(x + 8)(2x - 3)$

15. $6m^2 - 44m + 48$
 $4(2m - 3)(m - 4)$

16. $4x^2 - 7x + 18$
prime

17. $2a^2 - 14a + 18$
 $2(a^2 - 7a + 9)$

18. $18 + 11y + 2y^2$
prime

Algebra Homework Practice Workbook Answer Key

Nancy Roser



Algebra Homework Practice Workbook Answer Key:

Pre-Algebra Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-04-23 *Forthcoming Books* Rose Army, 2003-04 Working with Fractions Ruth Herlihy, 1995-09-01 This packet provides practice in sixth grade mathematics skills with emphasis placed on fractions The material correlates with the curriculum in most basic mathematics texts and parents who wish their children to have practice in mathematics skills will find the book as helpful as classroom teachers will find it The exercises are presented so that a child can work with a minimum of supervision Answers are included

Children's Books in Print R R Bowker Publishing, Bowker, 1999-12 **Adding Addends** Ruth Herlihy, 1995-09-01 This packet provides practice in third grade mathematics skills with emphasis placed on addition The material correlates with the curriculum in most basic mathematics texts and parents who wish their children to have practice in mathematics skills will find the book as helpful as classroom teachers will find it The exercises are presented so that a child can work with a minimum of supervision Answers are included **Some Sums** Ruth Herlihy, 1995-09-01 Parents teachers and students will all find this packet helpful which reviews addition of whole numbers Examples are provided so students can work with a minimum of supervision from front to back or in any order that best meets their needs Answers are included Algebra 1

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