

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 12** Simplifying Algebraic Expressions by  
Factoring Polynomials  
**Lesson 5** Factoring  $ax^2 + bx + c$



**additional  
practice**

**Factor.**

1.  $3x^2 + 10x + 7$   
\_\_\_\_\_

2.  $7x^2 + 15x + 8$   
\_\_\_\_\_

3.  $5x^2 + 24x + 7$   
\_\_\_\_\_

4.  $3x^2 + 40x + 13$   
\_\_\_\_\_

5.  $7x^2 - 4x - 11$   
\_\_\_\_\_

6.  $2x^2 - 5x - 3$   
\_\_\_\_\_

7.  $17x^2 - 4x - 13$   
\_\_\_\_\_

8.  $31x^2 - 61x - 2$   
\_\_\_\_\_

9.  $5x^2 + 8x - 13$   
\_\_\_\_\_

10.  $5x^2 + 94x - 19$   
\_\_\_\_\_

11.  $13x^2 + 64x - 5$   
\_\_\_\_\_

12.  $7x^2 - 22x + 3$   
\_\_\_\_\_

13.  $11x^2 - 18x + 7$   
\_\_\_\_\_

14.  $4x^2 + 8x + 3$   
\_\_\_\_\_

15.  $4x^2 + 7x - 11$   
\_\_\_\_\_

16.  $36x^2 + 60x + 25$   
\_\_\_\_\_

17.  $12x^2 - x - 20$   
\_\_\_\_\_

18.  $2x^2 - 5x - 7$   
\_\_\_\_\_

19.  $5x^2 + 7x - 1$   
\_\_\_\_\_

20.  $3x^2 + x - 4$   
\_\_\_\_\_



21.  $3x^2 - 14x + 16$

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23.  $14x^2 - 11x - 15$

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22.  $48x^2 + 14x - 49$

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24.  $13x^2 - 36x - 9$

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