

Factoring Quadratic Expressions (A)

Name: _____

Date: _____

Factor each expression.

1. $-x^2 - 8x - 12$

11. $-x^2 - 4x + 21$

2. $x^2 - 2x - 35$

12. $x^2 - 6x - 27$

3. $-x^2 - 3x + 18$

13. $-x^2 - 8x - 7$

4. $-x^2 + 12x - 36$

14. $x^2 + 11x + 24$

5. $-x^2 - 4x - 3$

15. $x^2 + 5x - 24$

6. $-x^2 - 9x - 14$

16. $-x^2 - 8x + 9$

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

17. $-x^2 + x + 72$

8. $x^2 + 6x + 8$

18. $x^2 + 2x - 15$

9. $x^2 - 49$

19. $x^2 + x - 20$

10. $-x^2 - 9x - 18$

20. $-x^2 + 49$

Factoring Quadratic Expressions (A) Answers

Name: _____

Date: _____

Factor each expression.

1. $-x^2 - 8x - 12$

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

2. $x^2 - 2x - 35$

$(x + 5)(x - 7)$

3. $-x^2 - 3x + 18$

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

4. $-x^2 + 12x - 36$

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

5. $-x^2 - 4x - 3$

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

6. $-x^2 - 9x - 14$

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

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

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

8. $x^2 + 6x + 8$

$(x + 2)(x + 4)$

9. $x^2 - 49$

$(x + 7)(x - 7)$

10. $-x^2 - 9x - 18$

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

11. $-x^2 - 4x + 21$

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

12. $x^2 - 6x - 27$

$(x + 3)(x - 9)$

13. $-x^2 - 8x - 7$

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

14. $x^2 + 11x + 24$

$(x + 3)(x + 8)$

15. $x^2 + 5x - 24$

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

16. $-x^2 - 8x + 9$

$-(x - 1)(x + 9)$

17. $-x^2 + x + 72$

$-(x - 9)(x + 8)$

18. $x^2 + 2x - 15$

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

19. $x^2 + x - 20$

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

20. $-x^2 + 49$

$-(x - 7)(x + 7)$