

Factoring Quadratic Expressions (J)

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 + 13x - 18$

11. $x^2 + 9x + 18$

2. $x^2 - 12x + 32$

12. $3x^2 - 5x - 8$

3. $-4x^2 + 27x + 7$

13. $4x^2 - 25x - 56$

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

14. $3x^2 - 13x + 4$

5. $-2x^2 + x + 28$

15. $-2x^2 - 15x + 27$

6. $-2x^2 + 19x - 42$

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

7. $4x^2 - 15x - 25$

17. $4x^2 - 20x + 21$

8. $-4x^2 + 8x + 5$

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

9. $-3x^2 + 7x + 6$

19. $2x^2 + 25x + 72$

10. $2x^2 - 5x - 25$

20. $4x^2 - 19x + 12$

Factoring Quadratic Expressions (J) Answers

Name: _____

Date: _____

Factor each expression.

1. $-2x^2 + 13x - 18$

$-(2x - 9)(x - 2)$

2. $x^2 - 12x + 32$

$(x - 4)(x - 8)$

3. $-4x^2 + 27x + 7$

$-(x - 7)(4x + 1)$

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

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

5. $-2x^2 + x + 28$

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

6. $-2x^2 + 19x - 42$

$-(x - 6)(2x - 7)$

7. $4x^2 - 15x - 25$

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

8. $-4x^2 + 8x + 5$

$-(2x + 1)(2x - 5)$

9. $-3x^2 + 7x + 6$

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

10. $2x^2 - 5x - 25$

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

11. $x^2 + 9x + 18$

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

12. $3x^2 - 5x - 8$

$(x + 1)(3x - 8)$

13. $4x^2 - 25x - 56$

$(4x + 7)(x - 8)$

14. $3x^2 - 13x + 4$

$(x - 4)(3x - 1)$

15. $-2x^2 - 15x + 27$

$-(2x - 3)(x + 9)$

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

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

17. $4x^2 - 20x + 21$

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

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

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

19. $2x^2 + 25x + 72$

$(x + 8)(2x + 9)$

20. $4x^2 - 19x + 12$

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