

Factoring Quadratic Expressions (B)

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 + 14x - 8$

11. $-2x^2 - 13x - 18$

2. $4x^2 - 9x - 9$

12. $3x^2 + 13x + 12$

3. $4x^2 + 28x + 45$

13. $4x^2 - 11x - 45$

4. $2x^2 - 9x - 81$

14. $3x^2 + x - 10$

5. $-4x^2 + 8x + 21$

15. $4x^2 + 17x + 15$

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

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

7. $-3x^2 + 25x - 8$

17. $4x^2 - 20x + 25$

8. $-4x^2 + 27x - 18$

18. $-4x^2 + 15x + 54$

9. $3x^2 + 8x - 16$

19. $4x^2 - 8x + 3$

10. $2x^2 + 9x + 7$

20. $-2x^2 - 15x - 28$

Factoring Quadratic Expressions (B) Answers

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 + 14x - 8$

$-(3x - 2)(x - 4)$

2. $4x^2 - 9x - 9$

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

3. $4x^2 + 28x + 45$

$(2x + 5)(2x + 9)$

4. $2x^2 - 9x - 81$

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

5. $-4x^2 + 8x + 21$

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

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

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

7. $-3x^2 + 25x - 8$

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

8. $-4x^2 + 27x - 18$

$-(4x - 3)(x - 6)$

9. $3x^2 + 8x - 16$

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

10. $2x^2 + 9x + 7$

$(x + 1)(2x + 7)$

11. $-2x^2 - 13x - 18$

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

12. $3x^2 + 13x + 12$

$(x + 3)(3x + 4)$

13. $4x^2 - 11x - 45$

$(4x + 9)(x - 5)$

14. $3x^2 + x - 10$

$(x + 2)(3x - 5)$

15. $4x^2 + 17x + 15$

$(4x + 5)(x + 3)$

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

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

17. $4x^2 - 20x + 25$

$(2x - 5)(2x - 5) = (2x - 5)^2$

18. $-4x^2 + 15x + 54$

$-(4x + 9)(x - 6)$

19. $4x^2 - 8x + 3$

$(2x - 1)(2x - 3)$

20. $-2x^2 - 15x - 28$

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