

Factoring Quadratic Expressions (A)

Name: _____

Date: _____

Factor each expression.

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

11. $3x^2 + 17x + 20$

2. $4x^2 + 13x + 10$

12. $3x^2 + 26x + 48$

3. $-4x^2 - 27x + 40$

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

4. $-4x^2 + 5x + 6$

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

5. $-2x^2 - 15x + 8$

15. $4x^2 - 16x + 7$

6. $4x^2 - 35x + 49$

16. $-4x^2 + 28x - 45$

7. $4x^2 - x - 14$

17. $2x^2 - 11x - 21$

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

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

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

19. $-2x^2 + 7x + 15$

10. $-3x^2 - 22x - 24$

20. $3x^2 + 10x - 48$

Factoring Quadratic Expressions (A) Answers

Name: _____

Date: _____

Factor each expression.

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

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

2. $4x^2 + 13x + 10$

$(4x + 5)(x + 2)$

3. $-4x^2 - 27x + 40$

$-(4x - 5)(x + 8)$

4. $-4x^2 + 5x + 6$

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

5. $-2x^2 - 15x + 8$

$-(2x - 1)(x + 8)$

6. $4x^2 - 35x + 49$

$(4x - 7)(x - 7)$

7. $4x^2 - x - 14$

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

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

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

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

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

10. $-3x^2 - 22x - 24$

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

11. $3x^2 + 17x + 20$

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

12. $3x^2 + 26x + 48$

$(3x + 8)(x + 6)$

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

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

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

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

15. $4x^2 - 16x + 7$

$(2x - 1)(2x - 7)$

16. $-4x^2 + 28x - 45$

$-(2x - 9)(2x - 5)$

17. $2x^2 - 11x - 21$

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

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

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

19. $-2x^2 + 7x + 15$

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

20. $3x^2 + 10x - 48$

$(3x - 8)(x + 6)$