

Factoring Quadratic Expressions (A)

Name: _____

Date: _____

Factor each expression.

1. $-25x^2 - 25x + 14$

11. $-16x^2 + 66x - 35$

2. $-63x^2 - 17x + 10$

12. $9x^2 - 86x + 45$

3. $72x^2 + 97x + 18$

13. $8x^2 - 75x + 27$

4. $-35x^2 + 22x - 3$

14. $18x^2 + 23x - 6$

5. $-32x^2 - 12x + 5$

15. $48x^2 - 38x - 21$

6. $-3x^2 + 22x - 24$

16. $-30x^2 + 19x + 63$

7. $-40x^2 + 13x + 42$

17. $-54x^2 + 33x - 4$

8. $30x^2 + 13x - 56$

18. $12x^2 + 23x - 24$

9. $-5x^2 - 14x - 8$

19. $16x^2 + 2x - 3$

10. $-16x^2 + 46x - 15$

20. $-2x^2 - 9x + 56$

Factoring Quadratic Expressions (A) Answers

Name: _____

Date: _____

Factor each expression.

1. $-25x^2 - 25x + 14$

$-(5x - 2)(5x + 7)$

2. $-63x^2 - 17x + 10$

$-(7x - 2)(9x + 5)$

3. $72x^2 + 97x + 18$

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

4. $-35x^2 + 22x - 3$

$-(5x - 1)(7x - 3)$

5. $-32x^2 - 12x + 5$

$-(4x - 1)(8x + 5)$

6. $-3x^2 + 22x - 24$

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

7. $-40x^2 + 13x + 42$

$-(5x - 6)(8x + 7)$

8. $30x^2 + 13x - 56$

$(5x + 8)(6x - 7)$

9. $-5x^2 - 14x - 8$

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

10. $-16x^2 + 46x - 15$

$-(8x - 3)(2x - 5)$

11. $-16x^2 + 66x - 35$

$-(8x - 5)(2x - 7)$

12. $9x^2 - 86x + 45$

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

13. $8x^2 - 75x + 27$

$(x - 9)(8x - 3)$

14. $18x^2 + 23x - 6$

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

15. $48x^2 - 38x - 21$

$(6x - 7)(8x + 3)$

16. $-30x^2 + 19x + 63$

$-(5x - 9)(6x + 7)$

17. $-54x^2 + 33x - 4$

$-(9x - 4)(6x - 1)$

18. $12x^2 + 23x - 24$

$(4x - 3)(3x + 8)$

19. $16x^2 + 2x - 3$

$(2x + 1)(8x - 3)$

20. $-2x^2 - 9x + 56$

$-(2x - 7)(x + 8)$