

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $3x^2 - 22x - 16$

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

2. $-3x^2 + 11x + 4$

12. $-x^2 + 13x - 40$

3. $3x^2 - 16x + 5$

13. $-4x^2 + 33x - 54$

4. $-3x^2 - 29x - 18$

14. $-4x^2 + 11x + 20$

5. $-2x^2 - 27x - 81$

15. $4x^2 - 7x - 36$

6. $2x^2 + 9x - 18$

16. $-4x^2 + 41x - 45$

7. $3x^2 - 19x - 72$

17. $4x^2 - 7x - 2$

8. $2x^2 + 17x + 8$

18. $-2x^2 - 13x - 20$

9. $-2x^2 + 15x - 18$

19. $x^2 - 13x + 40$

10. $2x^2 - 15x - 27$

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

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $3x^2 - 22x - 16$

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

2. $-3x^2 + 11x + 4$

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

3. $3x^2 - 16x + 5$

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

4. $-3x^2 - 29x - 18$

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

5. $-2x^2 - 27x - 81$

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

6. $2x^2 + 9x - 18$

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

7. $3x^2 - 19x - 72$

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

8. $2x^2 + 17x + 8$

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

9. $-2x^2 + 15x - 18$

$-(2x - 3)(x - 6)$

10. $2x^2 - 15x - 27$

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

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

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

12. $-x^2 + 13x - 40$

$-(x - 8)(x - 5)$

13. $-4x^2 + 33x - 54$

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

14. $-4x^2 + 11x + 20$

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

15. $4x^2 - 7x - 36$

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

16. $-4x^2 + 41x - 45$

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

17. $4x^2 - 7x - 2$

$(x - 2)(4x + 1)$

18. $-2x^2 - 13x - 20$

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

19. $x^2 - 13x + 40$

$(x - 5)(x - 8)$

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

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