

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 12x - 7$

11. $4x^2 - 13x - 35$

2. $2x^2 - 13x - 7$

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

3. $2x^2 + 13x + 21$

13. $3x^2 + 19x - 14$

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

14. $2x^2 - x - 36$

5. $3x^2 + 2x - 1$

15. $2x^2 - 17x + 36$

6. $4x^2 + 17x + 4$

16. $4x^2 - 3x - 10$

7. $4x^2 - 28x + 45$

17. $x^2 - 8x + 12$

8. $4x^2 + 39x + 27$

18. $2x^2 - 15x + 28$

9. $3x^2 - 32x + 64$

19. $4x^2 - 4x - 35$

10. $2x^2 - 19x + 24$

20. $4x^2 - 9x - 9$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 12x - 7$

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

2. $2x^2 - 13x - 7$

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

3. $2x^2 + 13x + 21$

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

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

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

5. $3x^2 + 2x - 1$

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

6. $4x^2 + 17x + 4$

$(x + 4)(4x + 1)$

7. $4x^2 - 28x + 45$

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

8. $4x^2 + 39x + 27$

$(x + 9)(4x + 3)$

9. $3x^2 - 32x + 64$

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

10. $2x^2 - 19x + 24$

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

11. $4x^2 - 13x - 35$

$(4x + 7)(x - 5)$

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

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

13. $3x^2 + 19x - 14$

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

14. $2x^2 - x - 36$

$(2x - 9)(x + 4)$

15. $2x^2 - 17x + 36$

$(x - 4)(2x - 9)$

16. $4x^2 - 3x - 10$

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

17. $x^2 - 8x + 12$

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

18. $2x^2 - 15x + 28$

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

19. $4x^2 - 4x - 35$

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

20. $4x^2 - 9x - 9$

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