

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $-6x^2 + 5x - 1$

11. $-6x^2 - 23x + 35$

2. $27x^2 - 66x + 7$

12. $-16x^2 + 26x - 9$

3. $72x^2 + 5x - 12$

13. $-40x^2 + 31x + 35$

4. $8x^2 + 27x + 9$

14. $-27x^2 - 12x + 4$

5. $6x^2 + 13x - 15$

15. $-35x^2 + 23x + 6$

6. $-21x^2 + 11x + 40$

16. $-48x^2 - 14x + 49$

7. $20x^2 - 47x + 21$

17. $24x^2 - 5x - 36$

8. $-24x^2 + 14x + 5$

18. $-15x^2 - 29x - 12$

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

19. $-9x^2 - 52x + 12$

10. $-18x^2 - 11x - 1$

20. $21x^2 - 43x - 14$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $-6x^2 + 5x - 1$

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

2. $27x^2 - 66x + 7$

$(9x - 1)(3x - 7)$

3. $72x^2 + 5x - 12$

$(9x + 4)(8x - 3)$

4. $8x^2 + 27x + 9$

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

5. $6x^2 + 13x - 15$

$(6x - 5)(x + 3)$

6. $-21x^2 + 11x + 40$

$-(7x + 8)(3x - 5)$

7. $20x^2 - 47x + 21$

$(4x - 7)(5x - 3)$

8. $-24x^2 + 14x + 5$

$-(4x + 1)(6x - 5)$

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

$(2x + 1)(5x + 2)$

10. $-18x^2 - 11x - 1$

$-(2x + 1)(9x + 1)$

11. $-6x^2 - 23x + 35$

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

12. $-16x^2 + 26x - 9$

$-(8x - 9)(2x - 1)$

13. $-40x^2 + 31x + 35$

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

14. $-27x^2 - 12x + 4$

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

15. $-35x^2 + 23x + 6$

$-(5x + 1)(7x - 6)$

16. $-48x^2 - 14x + 49$

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

17. $24x^2 - 5x - 36$

$(3x - 4)(8x + 9)$

18. $-15x^2 - 29x - 12$

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

19. $-9x^2 - 52x + 12$

$-(x + 6)(9x - 2)$

20. $21x^2 - 43x - 14$

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