

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 + 20x - 12$

11. $-x^2 + 5x + 14$

2. $-3x^2 - 19x - 6$

12. $-9x^2 - 43x - 28$

3. $8x^2 + 39x - 54$

13. $-6x^2 + 23x - 21$

4. $6x^2 - 13x - 15$

14. $4x^2 - x - 18$

5. $-4x^2 - 4x + 15$

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

6. $-9x^2 - 9x + 10$

16. $6x^2 + 31x + 28$

7. $-6x^2 + 5x + 14$

17. $9x^2 - 62x - 7$

8. $-2x^2 + x + 21$

18. $4x^2 + 8x - 5$

9. $3x^2 + 22x + 35$

19. $6x^2 + 35x + 25$

10. $7x^2 + 33x - 10$

20. $-6x^2 - 13x + 5$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 + 20x - 12$

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

2. $-3x^2 - 19x - 6$

$-(3x + 1)(x + 6)$

3. $8x^2 + 39x - 54$

$(x + 6)(8x - 9)$

4. $6x^2 - 13x - 15$

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

5. $-4x^2 - 4x + 15$

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

6. $-9x^2 - 9x + 10$

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

7. $-6x^2 + 5x + 14$

$-(x - 2)(6x + 7)$

8. $-2x^2 + x + 21$

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

9. $3x^2 + 22x + 35$

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

10. $7x^2 + 33x - 10$

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

11. $-x^2 + 5x + 14$

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

12. $-9x^2 - 43x - 28$

$-(x + 4)(9x + 7)$

13. $-6x^2 + 23x - 21$

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

14. $4x^2 - x - 18$

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

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

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

16. $6x^2 + 31x + 28$

$(6x + 7)(x + 4)$

17. $9x^2 - 62x - 7$

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

18. $4x^2 + 8x - 5$

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

19. $6x^2 + 35x + 25$

$(x + 5)(6x + 5)$

20. $-6x^2 - 13x + 5$

$-(3x - 1)(2x + 5)$