

Factoring Quadratic Expressions (G)

Name: _____

Date: _____

Factor each expression.

1. $8x^2 + 16x - 42$

11. $-8x^2 - 24x + 54$

2. $-9x^2 - 6x + 48$

12. $-12x^2 - 72x - 81$

3. $-12x^2 + 56x - 60$

13. $-12x^2 + 44x + 80$

4. $-8x^2 + 20x + 48$

14. $12x^2 - 69x + 84$

5. $10x^2 - 35x + 15$

15. $6x^2 - 10x + 4$

6. $4x^2 - 22x + 24$

16. $12x^2 - 44x + 24$

7. $-15x^2 - 130x + 45$

17. $6x^2 + 34x + 20$

8. $16x^2 - 172x + 252$

18. $-8x^2 + 58x - 14$

9. $6x^2 + 57x + 27$

19. $8x^2 - 2x - 36$

10. $-4x^2 - 10x + 6$

20. $4x^2 + 10x + 4$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $8x^2 + 16x - 42$

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

2. $-9x^2 - 6x + 48$

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

3. $-12x^2 + 56x - 60$

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

4. $-8x^2 + 20x + 48$

$-4(2x + 3)(x - 4)$

5. $10x^2 - 35x + 15$

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

6. $4x^2 - 22x + 24$

$2(2x - 3)(x - 4)$

7. $-15x^2 - 130x + 45$

$-5(x + 9)(3x - 1)$

8. $16x^2 - 172x + 252$

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

9. $6x^2 + 57x + 27$

$3(2x + 1)(x + 9)$

10. $-4x^2 - 10x + 6$

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

11. $-8x^2 - 24x + 54$

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

12. $-12x^2 - 72x - 81$

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

13. $-12x^2 + 44x + 80$

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

14. $12x^2 - 69x + 84$

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

15. $6x^2 - 10x + 4$

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

16. $12x^2 - 44x + 24$

$4(x - 3)(3x - 2)$

17. $6x^2 + 34x + 20$

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

18. $-8x^2 + 58x - 14$

$-2(4x - 1)(x - 7)$

19. $8x^2 - 2x - 36$

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

20. $4x^2 + 10x + 4$

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