

Factoring Quadratic Expressions (G)

Name: _____

Date: _____

Factor each expression.

1. $24x^2 - 148x - 140$

11. $32x^2 - 180x + 100$

2. $36x^2 - 78x + 30$

12. $36x^2 - 30x + 6$

3. $-16x^2 - 60x + 54$

13. $14x^2 - 110x - 144$

4. $-30x^2 - 246x - 48$

14. $5x^2 - 55x + 90$

5. $48x^2 - 6x - 42$

15. $18x^2 - 3x - 6$

6. $-8x^2 + 22x - 12$

16. $-16x^2 + 152x - 72$

7. $24x^2 - 8x - 16$

17. $10x^2 + 95x + 120$

8. $18x^2 + 21x - 15$

18. $-18x^2 - 27x + 486$

9. $24x^2 + 30x + 6$

19. $-16x^2 + 86x + 60$

10. $-48x^2 - 88x - 32$

20. $20x^2 - 144x + 144$

Factoring Quadratic Expressions (G) Answers

Name: _____

Date: _____

Factor each expression.

1. $24x^2 - 148x - 140$

$4(6x + 5)(x - 7)$

2. $36x^2 - 78x + 30$

$6(2x - 1)(3x - 5)$

3. $-16x^2 - 60x + 54$

$-2(2x + 9)(4x - 3)$

4. $-30x^2 - 246x - 48$

$-6(5x + 1)(x + 8)$

5. $48x^2 - 6x - 42$

$6(8x + 7)(x - 1)$

6. $-8x^2 + 22x - 12$

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

7. $24x^2 - 8x - 16$

$8(x - 1)(3x + 2)$

8. $18x^2 + 21x - 15$

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

9. $24x^2 + 30x + 6$

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

10. $-48x^2 - 88x - 32$

$-8(3x + 4)(2x + 1)$

11. $32x^2 - 180x + 100$

$4(8x - 5)(x - 5)$

12. $36x^2 - 30x + 6$

$6(3x - 1)(2x - 1)$

13. $14x^2 - 110x - 144$

$2(x - 9)(7x + 8)$

14. $5x^2 - 55x + 90$

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

15. $18x^2 - 3x - 6$

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

16. $-16x^2 + 152x - 72$

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

17. $10x^2 + 95x + 120$

$5(2x + 3)(x + 8)$

18. $-18x^2 - 27x + 486$

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

19. $-16x^2 + 86x + 60$

$-2(8x + 5)(x - 6)$

20. $20x^2 - 144x + 144$

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