

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 52x + 160$

11. $5x^2 - 25x + 30$

2. $-2x^2 - 4x + 16$

12. $3x^2 + 45x + 168$

3. $-5x^2 - 65x - 200$

13. $5x^2 + 40x - 45$

4. $-4x^2 + 100$

14. $-5x^2 - 30x - 45$

5. $-3x^2 + 3x + 36$

15. $3x^2 + 36x + 105$

6. $-4x^2 + 16x + 48$

16. $-3x^2 - 21x - 30$

7. $-3x^2 + 36x - 105$

17. $-3x^2 - 3x + 60$

8. $-3x^2 - 27x - 54$

18. $5x^2 - 25x - 180$

9. $4x^2 + 36x + 56$

19. $-2x^2 + 10x - 12$

10. $-2x^2 + 16x - 24$

20. $-3x^2 - 9x + 162$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 - 52x + 160$

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

2. $-2x^2 - 4x + 16$

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

3. $-5x^2 - 65x - 200$

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

4. $-4x^2 + 100$

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

5. $-3x^2 + 3x + 36$

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

6. $-4x^2 + 16x + 48$

$-4(x + 2)(x - 6)$

7. $-3x^2 + 36x - 105$

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

8. $-3x^2 - 27x - 54$

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

9. $4x^2 + 36x + 56$

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

10. $-2x^2 + 16x - 24$

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

11. $5x^2 - 25x + 30$

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

12. $3x^2 + 45x + 168$

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

13. $5x^2 + 40x - 45$

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

14. $-5x^2 - 30x - 45$

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

15. $3x^2 + 36x + 105$

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

16. $-3x^2 - 21x - 30$

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

17. $-3x^2 - 3x + 60$

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

18. $5x^2 - 25x - 180$

$5(x - 9)(x + 4)$

19. $-2x^2 + 10x - 12$

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

20. $-3x^2 - 9x + 162$

$-3(x - 6)(x + 9)$