

Factoring Quadratic Expressions (H)

Name: _____

Date: _____

Factor each expression.

1. $-24x^2 - 100x - 16$

11. $-64x^2 - 336x - 216$

2. $-24x^2 - 150x - 150$

12. $24x^2 + 66x - 18$

3. $-6x^2 - 69x - 135$

13. $48x^2 - 152x + 24$

4. $-36x^2 + 144x - 63$

14. $72x^2 - 568x - 64$

5. $12x^2 + 90x + 42$

15. $48x^2 + 296x + 360$

6. $24x^2 + 116x + 36$

16. $30x^2 + 228x + 288$

7. $35x^2 - 290x + 80$

17. $24x^2 - 78x + 45$

8. $18x^2 + 82x - 40$

18. $27x^2 + 81x + 60$

9. $-2x^2 + 30x - 108$

19. $36x^2 + 72x - 189$

10. $18x^2 + 3x - 45$

20. $14x^2 + 116x + 126$

Factoring Quadratic Expressions (H) Answers

Name: _____

Date: _____

Factor each expression.

1. $-24x^2 - 100x - 16$

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

2. $-24x^2 - 150x - 150$

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

3. $-6x^2 - 69x - 135$

$-3(2x + 5)(x + 9)$

4. $-36x^2 + 144x - 63$

$-9(2x - 1)(2x - 7)$

5. $12x^2 + 90x + 42$

$6(x + 7)(2x + 1)$

6. $24x^2 + 116x + 36$

$4(3x + 1)(2x + 9)$

7. $35x^2 - 290x + 80$

$5(7x - 2)(x - 8)$

8. $18x^2 + 82x - 40$

$2(9x - 4)(x + 5)$

9. $-2x^2 + 30x - 108$

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

10. $18x^2 + 3x - 45$

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

11. $-64x^2 - 336x - 216$

$-8(4x + 3)(2x + 9)$

12. $24x^2 + 66x - 18$

$6(4x - 1)(x + 3)$

13. $48x^2 - 152x + 24$

$8(6x - 1)(x - 3)$

14. $72x^2 - 568x - 64$

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

15. $48x^2 + 296x + 360$

$8(3x + 5)(2x + 9)$

16. $30x^2 + 228x + 288$

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

17. $24x^2 - 78x + 45$

$3(2x - 5)(4x - 3)$

18. $27x^2 + 81x + 60$

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

19. $36x^2 + 72x - 189$

$9(2x + 7)(2x - 3)$

20. $14x^2 + 116x + 126$

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