

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 22x + 4$

11. $8x^2 + 36x - 140$

2. $-150x^2 + 215x - 75$

12. $108x^2 - 228x - 56$

3. $-160x^2 + 372x - 216$

13. $-20x^2 - 188x - 224$

4. $-4x^2 + 18x + 10$

14. $-112x^2 + 74x - 12$

5. $81x^2 + 198x - 48$

15. $-112x^2 + 26x + 6$

6. $-40x^2 - 30x + 135$

16. $21x^2 + 99x - 162$

7. $-56x^2 + 204x + 216$

17. $32x^2 - 88x - 252$

8. $72x^2 - 96x + 14$

18. $6x^2 + 21x + 18$

9. $90x^2 - 82x + 8$

19. $32x^2 + 12x - 14$

10. $-9x^2 + 87x - 168$

20. $200x^2 - 255x + 70$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $18x^2 + 22x + 4$

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

2. $-150x^2 + 215x - 75$

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

3. $-160x^2 + 372x - 216$

$-4(5x - 6)(8x - 9)$

4. $-4x^2 + 18x + 10$

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

5. $81x^2 + 198x - 48$

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

6. $-40x^2 - 30x + 135$

$-5(4x + 9)(2x - 3)$

7. $-56x^2 + 204x + 216$

$-4(2x - 9)(7x + 6)$

8. $72x^2 - 96x + 14$

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

9. $90x^2 - 82x + 8$

$2(5x - 4)(9x - 1)$

10. $-9x^2 + 87x - 168$

$-3(3x - 8)(x - 7)$

11. $8x^2 + 36x - 140$

$4(2x - 5)(x + 7)$

12. $108x^2 - 228x - 56$

$4(3x - 7)(9x + 2)$

13. $-20x^2 - 188x - 224$

$-4(x + 8)(5x + 7)$

14. $-112x^2 + 74x - 12$

$-2(8x - 3)(7x - 2)$

15. $-112x^2 + 26x + 6$

$-2(7x + 1)(8x - 3)$

16. $21x^2 + 99x - 162$

$3(x + 6)(7x - 9)$

17. $32x^2 - 88x - 252$

$4(2x - 9)(4x + 7)$

18. $6x^2 + 21x + 18$

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

19. $32x^2 + 12x - 14$

$2(2x - 1)(8x + 7)$

20. $200x^2 - 255x + 70$

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