

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $8x^2 + 48x + 54$

11. $10x^2 - 92x + 96$

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

12. $10x^2 + 36x - 70$

3. $-16x^2 - 48x + 28$

13. $-9x^2 - 93x - 168$

4. $12x^2 - 28x - 24$

14. $4x^2 + 2x - 56$

5. $10x^2 + 25x - 15$

15. $20x^2 + 64x + 48$

6. $-16x^2 - 148x - 36$

16. $10x^2 - 34x + 28$

7. $20x^2 + 55x - 100$

17. $4x^2 + 2x - 90$

8. $-20x^2 + 140x - 225$

18. $25x^2 + 120x - 180$

9. $15x^2 - 80x + 80$

19. $6x^2 - 3x - 3$

10. $-12x^2 + 33x - 18$

20. $20x^2 - 75x - 125$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $8x^2 + 48x + 54$

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

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

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

3. $-16x^2 - 48x + 28$

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

4. $12x^2 - 28x - 24$

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

5. $10x^2 + 25x - 15$

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

6. $-16x^2 - 148x - 36$

$-4(4x + 1)(x + 9)$

7. $20x^2 + 55x - 100$

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

8. $-20x^2 + 140x - 225$

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

9. $15x^2 - 80x + 80$

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

10. $-12x^2 + 33x - 18$

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

11. $10x^2 - 92x + 96$

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

12. $10x^2 + 36x - 70$

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

13. $-9x^2 - 93x - 168$

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

14. $4x^2 + 2x - 56$

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

15. $20x^2 + 64x + 48$

$4(5x + 6)(x + 2)$

16. $10x^2 - 34x + 28$

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

17. $4x^2 + 2x - 90$

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

18. $25x^2 + 120x - 180$

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

19. $6x^2 - 3x - 3$

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

20. $20x^2 - 75x - 125$

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