

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $24x^2 + 46x + 21$

11. $36x^2 + 7x - 15$

2. $20x^2 + 57x + 27$

12. $63x^2 - 68x + 12$

3. $14x^2 + 53x + 45$

13. $72x^2 + 127x + 56$

4. $42x^2 - 23x - 10$

14. $24x^2 + 38x - 7$

5. $35x^2 + 48x + 16$

15. $56x^2 + 127x + 72$

6. $48x^2 + 2x - 1$

16. $4x^2 - 9$

7. $7x^2 + 34x - 48$

17. $35x^2 + 17x - 30$

8. $12x^2 - 44x + 7$

18. $36x^2 + 48x + 7$

9. $40x^2 - 41x - 21$

19. $36x^2 + 36x + 5$

10. $14x^2 + 3x - 27$

20. $28x^2 + 79x + 36$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $24x^2 + 46x + 21$

$(6x + 7)(4x + 3)$

2. $20x^2 + 57x + 27$

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

3. $14x^2 + 53x + 45$

$(7x + 9)(2x + 5)$

4. $42x^2 - 23x - 10$

$(6x - 5)(7x + 2)$

5. $35x^2 + 48x + 16$

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

6. $48x^2 + 2x - 1$

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

7. $7x^2 + 34x - 48$

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

8. $12x^2 - 44x + 7$

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

9. $40x^2 - 41x - 21$

$(8x + 3)(5x - 7)$

10. $14x^2 + 3x - 27$

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

11. $36x^2 + 7x - 15$

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

12. $63x^2 - 68x + 12$

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

13. $72x^2 + 127x + 56$

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

14. $24x^2 + 38x - 7$

$(6x - 1)(4x + 7)$

15. $56x^2 + 127x + 72$

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

16. $4x^2 - 9$

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

17. $35x^2 + 17x - 30$

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

18. $36x^2 + 48x + 7$

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

19. $36x^2 + 36x + 5$

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

20. $28x^2 + 79x + 36$

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