

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $4x^2 + 18x + 20$

11. $20x^2 + 80x - 45$

2. $-20x^2 - 55x - 30$

12. $10x^2 - 5x - 5$

3. $-12x^2 - 68x - 80$

13. $-16x^2 - 116x - 120$

4. $20x^2 - 85x + 20$

14. $16x^2 + 84x - 196$

5. $16x^2 - 32x + 12$

15. $-4x^2 - 4x + 24$

6. $-16x^2 - 180x - 324$

16. $10x^2 + 95x + 120$

7. $8x^2 + 18x + 10$

17. $8x^2 - 62x - 16$

8. $-15x^2 + 50x + 40$

18. $-20x^2 + 60x + 135$

9. $6x^2 - 44x + 48$

19. $-8x^2 + 50x - 72$

10. $-5x^2 + 45x - 40$

20. $20x^2 - 125$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $4x^2 + 18x + 20$

$2(2x + 5)(x + 2)$

2. $-20x^2 - 55x - 30$

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

3. $-12x^2 - 68x - 80$

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

4. $20x^2 - 85x + 20$

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

5. $16x^2 - 32x + 12$

$4(2x - 3)(2x - 1)$

6. $-16x^2 - 180x - 324$

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

7. $8x^2 + 18x + 10$

$2(x + 1)(4x + 5)$

8. $-15x^2 + 50x + 40$

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

9. $6x^2 - 44x + 48$

$2(x - 6)(3x - 4)$

10. $-5x^2 + 45x - 40$

$-5(x - 1)(x - 8)$

11. $20x^2 + 80x - 45$

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

12. $10x^2 - 5x - 5$

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

13. $-16x^2 - 116x - 120$

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

14. $16x^2 + 84x - 196$

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

15. $-4x^2 - 4x + 24$

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

16. $10x^2 + 95x + 120$

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

17. $8x^2 - 62x - 16$

$2(4x + 1)(x - 8)$

18. $-20x^2 + 60x + 135$

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

19. $-8x^2 + 50x - 72$

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

20. $20x^2 - 125$

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