

Factoring Quadratic Expressions (E)

Name: _____

Date: _____

Factor each expression.

1. $5x^2 - 5x - 360$

11. $3x^2 + 3x - 6$

2. $4x^2 - 8x - 96$

12. $-5x^2 + 30x + 35$

3. $-2x^2 - 20x - 50$

13. $4x^2 + 60x + 216$

4. $-2x^2 - 2x + 84$

14. $4x^2 - 8x - 140$

5. $3x^2 - 21x + 36$

15. $-3x^2 + 3x + 36$

6. $2x^2 + 8x + 6$

16. $5x^2 + 90x + 405$

7. $-5x^2 - 5x + 30$

17. $5x^2 - 25x - 70$

8. $2x^2 + 28x + 96$

18. $-5x^2 - 50x - 120$

9. $4x^2 - 12x - 72$

19. $-4x^2 + 64x - 252$

10. $-5x^2 + 20$

20. $5x^2 - 35x + 60$

Factoring Quadratic Expressions (E) Answers

Name: _____

Date: _____

Factor each expression.

1. $5x^2 - 5x - 360$

$5(x - 9)(x + 8)$

2. $4x^2 - 8x - 96$

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

3. $-2x^2 - 20x - 50$

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

4. $-2x^2 - 2x + 84$

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

5. $3x^2 - 21x + 36$

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

6. $2x^2 + 8x + 6$

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

7. $-5x^2 - 5x + 30$

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

8. $2x^2 + 28x + 96$

$2(x + 6)(x + 8)$

9. $4x^2 - 12x - 72$

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

10. $-5x^2 + 20$

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

11. $3x^2 + 3x - 6$

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

12. $-5x^2 + 30x + 35$

$-5(x + 1)(x - 7)$

13. $4x^2 + 60x + 216$

$4(x + 9)(x + 6)$

14. $4x^2 - 8x - 140$

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

15. $-3x^2 + 3x + 36$

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

16. $5x^2 + 90x + 405$

$5(x + 9)(x + 9) = 5(x + 9)^2$

17. $5x^2 - 25x - 70$

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

18. $-5x^2 - 50x - 120$

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

19. $-4x^2 + 64x - 252$

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

20. $5x^2 - 35x + 60$

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