

Factoring Quadratic Expressions (A)

Name: _____

Date: _____

Factor each expression.

1. $-72x^2 - 174x - 105$

11. $-98x^2 - 168x - 64$

2. $150x^2 + 415x + 280$

12. $144x^2 - 260x + 100$

3. $24x^2 - 124x + 160$

13. $-144x^2 + 316x - 112$

4. $84x^2 - 34x - 8$

14. $-96x^2 - 212x - 112$

5. $-64x^2 - 152x - 70$

15. $-42x^2 + 141x + 216$

6. $-135x^2 - 30x + 25$

16. $192x^2 + 8x - 4$

7. $-112x^2 - 124x - 24$

17. $-80x^2 - 160x - 75$

8. $-135x^2 - 183x - 60$

18. $-35x^2 - 295x - 120$

9. $-24x^2 + 8x + 10$

19. $-40x^2 + 106x - 36$

10. $60x^2 + 141x + 63$

20. $48x^2 + 100x + 50$

Factoring Quadratic Expressions (A) Answers

Name: _____

Date: _____

Factor each expression.

1. $-72x^2 - 174x - 105$

$-3(4x + 5)(6x + 7)$

2. $150x^2 + 415x + 280$

$5(5x + 8)(6x + 7)$

3. $24x^2 - 124x + 160$

$4(2x - 5)(3x - 8)$

4. $84x^2 - 34x - 8$

$2(6x + 1)(7x - 4)$

5. $-64x^2 - 152x - 70$

$-2(8x + 5)(4x + 7)$

6. $-135x^2 - 30x + 25$

$-5(3x - 1)(9x + 5)$

7. $-112x^2 - 124x - 24$

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

8. $-135x^2 - 183x - 60$

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

9. $-24x^2 + 8x + 10$

$-2(6x - 5)(2x + 1)$

10. $60x^2 + 141x + 63$

$3(4x + 7)(5x + 3)$

11. $-98x^2 - 168x - 64$

$-2(7x + 8)(7x + 4)$

12. $144x^2 - 260x + 100$

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

13. $-144x^2 + 316x - 112$

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

14. $-96x^2 - 212x - 112$

$-4(3x + 4)(8x + 7)$

15. $-42x^2 + 141x + 216$

$-3(7x + 8)(2x - 9)$

16. $192x^2 + 8x - 4$

$4(6x + 1)(8x - 1)$

17. $-80x^2 - 160x - 75$

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

18. $-35x^2 - 295x - 120$

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

19. $-40x^2 + 106x - 36$

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

20. $48x^2 + 100x + 50$

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