

Factoring Quadratic Expressions (B)

Name: _____

Date: _____

Factor each expression.

1. $-32x^2 + 28x + 4$

11. $-280x^2 + 45x + 405$

2. $98x^2 + 14x - 12$

12. $18x^2 - 105x + 108$

3. $-126x^2 - 75x - 9$

13. $-252x^2 + 92x + 224$

4. $144x^2 + 140x - 196$

14. $-64x^2 + 32x + 140$

5. $-24x^2 + 26x + 8$

15. $-288x^2 - 292x + 36$

6. $-32x^2 - 152x - 180$

16. $135x^2 - 60x + 5$

7. $-24x^2 - 220x - 224$

17. $-12x^2 - 2x + 2$

8. $160x^2 + 500x + 315$

18. $-288x^2 - 28x + 196$

9. $60x^2 - 100x + 35$

19. $162x^2 + 279x + 105$

10. $200x^2 - 215x + 35$

20. $252x^2 + 212x - 144$

Factoring Quadratic Expressions (B) Answers

Name: _____

Date: _____

Factor each expression.

1. $-32x^2 + 28x + 4$

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

2. $98x^2 + 14x - 12$

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

3. $-126x^2 - 75x - 9$

$-3(7x + 3)(6x + 1)$

4. $144x^2 + 140x - 196$

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

5. $-24x^2 + 26x + 8$

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

6. $-32x^2 - 152x - 180$

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

7. $-24x^2 - 220x - 224$

$-4(6x + 7)(x + 8)$

8. $160x^2 + 500x + 315$

$5(4x + 9)(8x + 7)$

9. $60x^2 - 100x + 35$

$5(2x - 1)(6x - 7)$

10. $200x^2 - 215x + 35$

$5(8x - 7)(5x - 1)$

11. $-280x^2 + 45x + 405$

$-5(8x + 9)(7x - 9)$

12. $18x^2 - 105x + 108$

$3(3x - 4)(2x - 9)$

13. $-252x^2 + 92x + 224$

$-4(7x - 8)(9x + 7)$

14. $-64x^2 + 32x + 140$

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

15. $-288x^2 - 292x + 36$

$-4(9x - 1)(8x + 9)$

16. $135x^2 - 60x + 5$

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

17. $-12x^2 - 2x + 2$

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

18. $-288x^2 - 28x + 196$

$-4(9x - 7)(8x + 7)$

19. $162x^2 + 279x + 105$

$3(6x + 7)(9x + 5)$

20. $252x^2 + 212x - 144$

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