

Name: _____

Date: _____

MPM2D - Worksheet - Factoring Complex Trinomials (with Common Factors)

1. $3x^2 + 25x + 8$

21. $-6x^2 - 44x + 160$

2. $5x^2 + 46x + 9$

22. $-3x^2 - 4x + 20$

3. $2x^2 + 15x + 22$

23. $4x^2 + 17x + 18$

4. $3x^2 + 14x + 15$

24. $24x^2 + 20x - 100$

5. $8x^2 + 22x + 5$

25. $20x^2 + 29x + 5$

6. $2x^2 + 7x + 3$

26. $75x^2 - 170x - 385$

7. $5x^2 + 61x + 12$

27. $30x^2 - 129x - 198$

8. $8x^2 + 46x + 11$

28. $2x^2 + 13x + 20$

9. $6x^2 + 11x + 3$

29. $5x^2 + 14x + 8$

10. $8x^2 + 38x + 9$

30. $20x^2 - 150x + 280$

11. $-4x^2 + 2x + 72$

31. $10x^2 + 106x - 44$

12. $12x^2 - 117x - 30$

32. $20x^2 + 13x + 2$

13. $20x^2 - 42x + 16$

33. $4x^2 + 15x + 14$

14. $12x^2 + 69x - 105$

34. $2x^2 + 11x + 9$

15. $50x^2 + 140x + 80$

35. $25x^2 - 70x + 40$

16. $-20x^2 - 230x + 120$

36. $5x^2 + 11x + 6$

17. $15x^2 - 70x - 25$

37. $5x^2 + 13x + 8$

18. $6x^2 - 22x - 84$

38. $20x^2 + 88x - 192$

19. $18x^2 + 87x - 66$

39. $-8x^2 - 66x - 70$

20. $100x^2 - 170x - 110$

MPM2D - Worksheet - Factoring Complex Trinomials (with Common Factors)**Answer Section**

1. Complex Trinomial: $(3x + 1)(x + 8)$
2. Complex Trinomial: $(5x + 1)(x + 9)$
3. Complex Trinomial: $(x + 2)(2x + 11)$
4. Complex Trinomial: $(x + 3)(3x + 5)$
5. Complex Trinomial: $(4x + 1)(2x + 5)$
6. Complex Trinomial: $(x + 3)(2x + 1)$
7. Complex Trinomial: $(5x + 1)(x + 12)$
8. Complex Trinomial: $(2x + 11)(4x + 1)$
9. Complex Trinomial: $(2x + 3)(3x + 1)$
10. Complex Trinomial: $(4x + 1)(2x + 9)$
11. Common Factor, Complex Trinomial: $-2(x + 4)(2x - 9)$
12. Common Factor, Complex Trinomial: $3(x - 10)(4x + 1)$
13. Common Factor, Complex Trinomial: $2(5x - 8)(2x - 1)$
14. Common Factor, Complex Trinomial: $3(4x - 5)(x + 7)$
15. Common Factor, Complex Trinomial: $10(x + 2)(5x + 4)$
16. Common Factor, Complex Trinomial: $-10(x + 12)(2x - 1)$
17. Common Factor, Complex Trinomial: $5(x - 5)(3x + 1)$
18. Common Factor, Complex Trinomial: $2(3x + 7)(x - 6)$
19. Common Factor, Complex Trinomial: $3(3x - 2)(2x + 11)$
20. Common Factor, Complex Trinomial: $10(2x + 1)(5x - 11)$
21. Common Factor, Complex Trinomial: $-2(x + 10)(3x - 8)$
22. Common Factor, Complex Trinomial: $-(x - 2)(3x + 10)$
23. Complex Trinomial: $(x + 2)(4x + 9)$
24. Common Factor, Complex Trinomial: $4(3x - 5)(2x + 5)$
25. Complex Trinomial: $(4x + 5)(5x + 1)$
26. Common Factor, Complex Trinomial: $5(3x - 11)(5x + 7)$
27. Common Factor, Complex Trinomial: $3(5x + 6)(2x - 11)$
28. Complex Trinomial: $(2x + 5)(x + 4)$
29. Complex Trinomial: $(5x + 4)(x + 2)$
30. Common Factor, Complex Trinomial: $10(2x - 7)(x - 4)$
31. Common Factor, Complex Trinomial: $2(5x - 2)(x + 11)$
32. Complex Trinomial: $(5x + 2)(4x + 1)$
33. Complex Trinomial: $(x + 2)(4x + 7)$
34. Complex Trinomial: $(2x + 9)(x + 1)$
35. Common Factor, Complex Trinomial: $5(5x - 4)(x - 2)$
36. Complex Trinomial: $(5x + 6)(x + 1)$
37. Complex Trinomial: $(x + 1)(5x + 8)$
38. Common Factor, Complex Trinomial: $4(5x - 8)(x + 6)$
39. Common Factor, Complex Trinomial: $-2(4x + 5)(x + 7)$