

WS - Completing the Square - Complex Trinomials

1. $y = 6x^2 - 48x + 13$

2. $y = 4x^2 + 24x - 7$

3. $y = -2x^2 + 24x + 14$

4. $y = -6x^2 - 12x + 12$

5. $y = -7x^2 - 42x - 14$

6. $y = -2x^2 + 12x - 7$

7. $y = -6x^2 - 48x - 4$

8. $y = -x^2 + 2x - 2$

9. $y = -7x^2 + 42x - 11$

10. $y = 5x^2 - 10x + 13$

11. $y = -8x^2 + 32x + 7$

12. $y = -x^2 - 2x + 8$

13. $y = -8x^2 + 16x - 6$

14. $y = 4x^2 + 32x - 12$

15. $y = -4x^2 - 8x + 1$

16. $y = -3x^2 + 18x + 3$

17. $y = 3x^2 + 6x + 15$

18. $y = 4x^2 + 24x + 11$

19. $y = -6x^2 - 24x - 13$

20. $y = 3x^2 - 24x + 4$

21. $y = 6x^2 - 12x - 10$

22. $y = -5x^2 - 40x + 3$

23. $y = -9x^2 + 36x - 1$

24. $y = 4x^2 + 16x + 12$

25. $y = -4x^2 + 24x - 8$

26. $y = -6x^2 - 24x + 7$

27. $y = -6x^2 - 48x - 9$

28. $y = -6x^2 - 24x - 7$

29. $y = -x^2 - 8x + 1$

30. $y = -5x^2 + 20x - 9$

31. $y = -8x^2 + 48x - 2$

32. $y = -5x^2 - 20x + 14$

33. $y = -x^2 - 4x + 3$

34. $y = -2x^2 - 8x + 13$

35. $y = -5x^2 - 30x - 6$

36. $y = -9x^2 - 18x + 6$

37. $y = -2x^2 + 28x - 3$

38. $y = 2x^2 - 20x - 13$

WS - Completing the Square - Complex Trinomials
Answer Section

1. ANS:

$$y = 6(x - 4)^2 - 83$$

2. ANS:

$$y = 4(x + 3)^2 - 43$$

3. ANS:

$$y = -2(x - 6)^2 + 86$$

4. ANS:

$$y = -6(x + 1)^2 + 18$$

5. ANS:

$$y = -7(x + 3)^2 + 49$$

6. ANS:

$$y = -2(x - 3)^2 + 11$$

7. ANS:

$$y = -6(x + 4)^2 + 92$$

8. ANS:

$$y = -(x - 1)^2 - 1$$

9. ANS:

$$y = -7(x - 3)^2 + 52$$

10. ANS:

$$y = 5(x - 1)^2 + 8$$

11. ANS:

$$y = -8(x - 2)^2 + 39$$

12. ANS:

$$y = -(x + 1)^2 + 9$$

13. ANS:

$$y = -8(x - 1)^2 + 2$$

14. ANS:

$$y = 4(x + 4)^2 - 76$$

15. ANS:

$$y = -4(x + 1)^2 + 5$$

16. ANS:

$$y = -3(x - 3)^2 + 30$$

17. ANS:

$$y = 3(x + 1)^2 + 12$$

18. ANS:

$$y = 4(x + 3)^2 - 25$$

19. ANS:

$$y = -6(x + 2)^2 + 11$$

20. ANS:
 $y = 3(x - 4)^2 - 44$
21. ANS:
 $y = 6(x - 1)^2 - 16$
22. ANS:
 $y = -5(x + 4)^2 + 83$
23. ANS:
 $y = -9(x - 2)^2 + 35$
24. ANS:
 $y = 4(x + 2)^2 - 4$
25. ANS:
 $y = -4(x - 3)^2 + 28$
26. ANS:
 $y = -6(x + 2)^2 + 31$
27. ANS:
 $y = -6(x + 4)^2 + 87$
28. ANS:
 $y = -6(x + 2)^2 + 17$
29. ANS:
 $y = -(x + 4)^2 + 17$
30. ANS:
 $y = -5(x - 2)^2 + 11$
31. ANS:
 $y = -8(x - 3)^2 + 70$
32. ANS:
 $y = -5(x + 2)^2 + 34$
33. ANS:
 $y = -(x + 2)^2 + 7$
34. ANS:
 $y = -2(x + 2)^2 + 21$
35. ANS:
 $y = -5(x + 3)^2 + 39$
36. ANS:
 $y = -9(x + 1)^2 + 15$
37. ANS:
 $y = -2(x - 7)^2 + 95$
38. ANS:
 $y = 2(x - 5)^2 - 63$