

**WS - Completing the Square - Complex Trinomials**

1.  $y = x^2 - 14x + 9$

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

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

4.  $y = x^2 + 14x + 14$

5.  $y = x^2 - 18x - 6$

6.  $y = x^2 + 2x + 2$

7.  $y = x^2 + 14x - 13$

8.  $y = x^2 - 4x - 6$

9.  $y = x^2 + 20x + 8$

10.  $y = x^2 - 4x - 14$

11.  $y = x^2 - 4x + 10$

12.  $y = x^2 - 16x + 5$

13.  $y = x^2 + 20x + 5$

14.  $y = x^2 + 18x + 3$

15.  $y = x^2 + 8x + 6$

16.  $y = x^2 + 10x - 9$

17.  $y = x^2 - 16x + 11$

18.  $y = x^2 - 6x + 11$

19.  $y = x^2 + 8x - 4$

20.  $y = x^2 - 6x + 10$

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

22.  $y = x^2 - 14x - 1$

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

24.  $y = x^2 - 6x + 5$

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

26.  $y = x^2 + 10x + 15$

27.  $y = x^2 - 4x - 9$

28.  $y = x^2 - 18x - 11$

29.  $y = x^2 + 20x + 1$

30.  $y = x^2 - 8x - 15$

31.  $y = x^2 + 16x + 13$

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

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

34.  $y = x^2 + 14x - 14$

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

36.  $y = x^2 + 12x + 6$

37.  $y = x^2 - 16x + 14$

38.  $y = x^2 + 16x + 15$

**WS - Completing the Square - Complex Trinomials**  
**Answer Section**

1. ANS:

$$y = (x - 7)^2 - 40$$

2. ANS:

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

3. ANS:

$$y = (x - 1)^2 + 11$$

4. ANS:

$$y = (x + 7)^2 - 35$$

5. ANS:

$$y = (x - 9)^2 - 87$$

6. ANS:

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

7. ANS:

$$y = (x + 7)^2 - 62$$

8. ANS:

$$y = (x - 2)^2 - 10$$

9. ANS:

$$y = (x + 10)^2 - 92$$

10. ANS:

$$y = (x - 2)^2 - 18$$

11. ANS:

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

12. ANS:

$$y = (x - 8)^2 - 59$$

13. ANS:

$$y = (x + 10)^2 - 95$$

14. ANS:

$$y = (x + 9)^2 - 78$$

15. ANS:

$$y = (x + 4)^2 - 10$$

16. ANS:

$$y = (x + 5)^2 - 34$$

17. ANS:

$$y = (x - 8)^2 - 53$$

18. ANS:

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

19. ANS:

$$y = (x + 4)^2 - 20$$

20. ANS:  
 $y = (x - 3)^2 + 1$
21. ANS:  
 $y = (x - 2)^2 - 1$
22. ANS:  
 $y = (x - 7)^2 - 50$
23. ANS:  
 $y = (x + 4)^2 - 4$
24. ANS:  
 $y = (x - 3)^2 - 4$
25. ANS:  
 $y = (x + 1)^2 - 13$
26. ANS:  
 $y = (x + 5)^2 - 10$
27. ANS:  
 $y = (x - 2)^2 - 13$
28. ANS:  
 $y = (x - 9)^2 - 92$
29. ANS:  
 $y = (x + 10)^2 - 99$
30. ANS:  
 $y = (x - 4)^2 - 31$
31. ANS:  
 $y = (x + 8)^2 - 51$
32. ANS:  
 $y = (x - 4)^2 - 9$
33. ANS:  
 $y = (x - 5)^2 - 12$
34. ANS:  
 $y = (x + 7)^2 - 63$
35. ANS:  
 $y = (x + 2)^2 - 10$
36. ANS:  
 $y = (x + 6)^2 - 30$
37. ANS:  
 $y = (x - 8)^2 - 50$
38. ANS:  
 $y = (x + 8)^2 - 49$