

Algebra 2**5.3-5.4 Worksheet - Factoring Quadratic Trinomials****Name** _____*Factor each of the following BASIC TRINOMIALS.*

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

11. $x^2 + 2x - 3$

2. $x^2 - 5x + 6$

12. $x^2 - 2x - 63$

3. $x^2 + 13x + 40$

13. $x^2 + 5x - 50$

4. $x^2 - 13x + 36$

14. $x^2 + 4x - 60$

5. $x^2 - 17x + 42$

15. $x^2 + x - 72$

6. $x^2 + 12x + 35$

16. $x^2 - x - 72$

7. $x^2 - 15x + 54$

17. $x^2 - 5x - 24$

8. $x^2 - 16x + 63$

18. $x^2 - 4x - 21$

9. $x^2 + 15x + 50$

19. $x^2 - x - 30$

10. $x^2 + 11x + 30$

20. $x^2 + x - 56$

Factor each of the following COMPLEX TRINOMIALS.

21. $2x^2 + 5x + 3$

22. $2x^2 + 7x + 3$

23. $5x^2 + 6x + 1$

24. $5x^2 - 22x + 8$

25. $7x^2 - 8x + 1$

26. $3x^2 + 2x - 16$

27. $5x^2 - 16x + 3$

28. $7x^2 - 18x + 8$

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

30. $3x^2 + x - 2$

31. $2x^2 - x - 6$

32. $3x^2 + 2x - 5$

Review-complete the GCF factoring.

33. $11x^4 + 44x^2y$

$11x^2(\quad + \quad)$

34. $xy^2 + 2x^2y$

$xy(\quad + \quad)$

35. $12x^3y - 3xy^2 + 9xy$

$xy(\quad - \quad + \quad)$

36. $6ax + 10bx + 32cx$

$2x(\quad - \quad + \quad)$