

Algebra 2A - 5.5 Worksheet**Factoring Perfect Square Trinomials and Difference of Squares****Simplify the following problems using FOIL.**

1. $(x + 2)^2$

2. $(x - 1)^2$

3. $(x - 9)^2$

4. $(2x - 5)^2$

Factor the following Perfect Square Trinomials.

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

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

5. $x^2 - 6x + 9$

6. $x^2 + 10x + 25$

7. $9x^2 + 48x + 64$

8. $4x^2 - 12x + 9$

9. $25c^2 - 120c + 144$

10. $16s^2 + 56s + 49$

11. $49z^2 - 56z + 16$

12. $9x^2 - 30x + 25$

13. $9x^2 - 24x + 16$

14. $16c^2 + 72c + 81$

Factor the following difference of squares.

15. $x^2 - 1$

16. $4x^2 - 9$

17. $x^2 - 16$

18. $x^2 - 25$

19. $x^2 - 100$

20. $x^2 - 36$

21. $x^2 - \frac{1}{4}$

22. $4x^2 - 81$

23. $81x^2 - 25$

24. $169 - 64x^2$

25. $49x^2y^2 - 100$

26. $\frac{1}{9}x^2 - \frac{4}{25}$

Review the Basic Trinomials

27. $x^2 + 13x - 61$

Review the Complex Trinomials

28. $3x^2 + 2x - 16$

Review the GCF

29. $3x^2y + 9xy - 12xy^2$