

Algebra 1

Practice Quiz 8.4-8.6

NAME _____

Factor each by General Trinomial (2 Points)

1. $2x^2 - 7x - 15$

2. $5x^2 + 13x - 6$

Factor each by The Difference of Two Squares (2 Points)

3. $x^2 - 49$

4. $4x^2 - 36$

1. _____

2. _____

Factor each by Perfect Square Trinomial (2 Points)

5. $x^2 + 12x + 36$

6. $x^2 - 16x + 64$

3. _____

4. _____

5. _____

6. _____

Factor each polynomial. Remember to use the factor methods in order: GCF, Grouping, General Trinomial, Difference of Two Squares, and Perfect Square Trinomial. If not factorable, write prime (2 Points)

7. $2x^2 - 6x - 10$

8. $x^2 - 25$

7. _____

8. _____

9. _____

10. _____

9. $8x^2 + 13x - 6$

10. $x^2 - 12x + 36$

11. _____

12. _____

11. $6x^2 + x - 12$

12. $9x^2 - 64$

Points (24) _____

Factor each polynomial. Remember to use the factor methods in order: GCF, Grouping, General Trinomial, Difference of Two Squares, and Perfect Square Trinomial. If not factorable, write prime (2 Points)

13. $6x^2 - 9x - 60$

14. $4x^2 - 64y^2$

13. _____

14. _____

15. $5x^2 + 17x + 14$

16. $3x^2 + 19x + 6$

15. _____

16. _____

17. _____

18. _____

Solve each equation. Check your solutions. (3 Points)

17. $(2x + 7)(x - 6) = 0$

18. $4x^2 - 5x - 6 = 0$

19. _____

20. _____

21. _____

22. _____

19. $2x^2 - 18 = 0$

20. $x^2 + 18x + 81 = 0$

21. $6x^2 - 5x - 4 = 0$

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

Points (26) _____