

SCORE

22

Name: _____

Class: _____

Hour: _____

Algebra 1B Homework Check (9-6)

(Please attach homework to this sheet and fill out the questions below.)

Pg. 633: 2-15, 33-38, 48-49

Use the Zero Product Property to solve each equation. Check your answer.

1. $(x + 2)(x - 8) = 0$

2. $(x - 6)(x - 5) = 0$

3. $(x + 7)(x + 9) = 0$

4. $(x)(x - 1) = 0$

5. $(x)(x + 11) = 0$

6. $(3x + 2)(4x - 1) = 0$

Solve each quadratic equation by factoring. Check your answer.

7. $x^2 + 4x - 12 = 0$

8. $x^2 - 8x - 9 = 0$

9. $x^2 - 5x + 6 = 0$

10. $x^2 - 3x = 10$

11. $x^2 + 10x = -16$

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

13. $x^2 - 8x + 16 = 0$

14. $-3x^2 = 18x + 27$

15. $x^2 + 36 = 12x$

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Determine the number of solutions of each equation.

33. $(x + 8)(x + 8) = 0$

34. $(x - 3)(x + 3) = 0$

35. $(x + 7)^2 = 0$

36. $3x^2 + 12x + 9 = 0$

37. $x^2 + 12x + 40 = 4$

38. $(x - 2)^2 = 9$

48. What are the solutions to $(x - 1)(2x + 5) = 0$?

(A) -1 and $\frac{5}{2}$

(B) -1 and $\frac{2}{5}$

(C) 1 and $-\frac{5}{2}$

(D) 1 and $-\frac{2}{5}$

49. Which graph could be used to solve the quadratic equation $x^2 - 5x + 6 = 0$?

