

SCORE

29

Name: _____

Class: _____

Hour: _____

Algebra 1B Homework Check (9-7) & Complex Numbers

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

Pg. 639: 1-28, 36

Solve using square roots. Check your answer.

1. $x^2 = 225$

2. $x^2 = 49$

3. $x^2 = -100$

4. $x^2 = 400$

5. $-25 = x^2$

6. $36 = x^2$

7. $3x^2 - 75 = 0$

8. $0 = 81x^2 - 25$

9. $49x^2 + 64 = 0$

10. $16x^2 + 10 = 131$

11. $0 = 4x^2 - 16$

12. $100x^2 + 26 = 10$

Solve. Round to the nearest hundredth.

13. $3x^2 = 81$

14. $0 = x^2 - 60$

15. $100 - 5x^2 = 0$

16. **Geometry** The length of a rectangle is 3 times its width. The area of the rectangle is 170 square meters. Find the width. Round to the nearest tenth of a meter. (*Hint: Use $A = bh$.*)

Name: _____

Class: _____

Hour: _____

Solve using square roots. Check your answer.

17. $x^2 = 169$

18. $x^2 = 25$

19. $x^2 = -36$

20. $x^2 = 10,000$

21. $-121 = x^2$

22. $625 = x^2$

23. $4 - 81x^2 = 0$

24. $-4x^2 - 49 = 0$

25. $64x^2 - 5 = 20$

26. $9x^2 + 9 = 25$

27. $49x^2 + 1 = 170$

28. $81x^2 + 17 = 81$

36. **Geometry** The area of a square is 196 m^2 . Find the dimensions of the square.

