

Name: _____

key

Square Roots & Cube Roots Home Work

For 1–5, find the TWO square roots for each.

1. 225

2. 121

3. 256

4. 81

5. 16

#1: ± 15

#2: ± 11

#3: ± 16

#4: ± 9

#5: ± 4

For 6–10, find the square root to the nearest TENTH for each.

6. $\sqrt{80}$

7. $\sqrt{328}$

8. $-\sqrt{35}$

9. $\sqrt{87}$

10. $\sqrt{409}$

#6: 8.9

#7: 18.1

#8: -5.9

#9: 9.3

#10: 20.7

For 11–15, find the cube root for each.

11. 8

12. 1

13. 216

14. 512

15. 1,000

#11: 2

#12: 1

#13: 6

#14: 8

#15: 10

For 16–30, evaluate each completely.

16. $-\sqrt{169}$

17. $\sqrt{361}$

18. $\sqrt{-256}$

19. $\sqrt[3]{-64}$

20. $\sqrt{144}$

#16: -13

#17: 19

#18: 16i

#19: -4

#20: 12

21. $\sqrt[3]{-27}$

22. $\sqrt{324}$

23. $\sqrt[3]{512}$

24. $\sqrt{-400}$

25. $\sqrt[3]{1,000}$

#21: -3

#22: 18

#23: 8

#24: 20i

#25: 10

26. $\sqrt{225}$

27. $-\sqrt{225}$

28. $\sqrt[3]{125}$

29. $\sqrt[3]{216}$

30. $\sqrt{289}$

#26: 15

#27: -15

#28: 5

#29: 6

#30: 17