

Math Sheet

Name _____ Score _____ / 18 Teacher _____ Date _____

Square and Cube Equations

Solve square and cube equations over the real numbers.

1. $x^2 = 49$

Domain: real variables $x \in \mathbb{R}$

2. $x^3 = 343$

Domain: real variables $x \in \mathbb{R}$

3. $x^3 = -343$

Domain: real variables $x \in \mathbb{R}$

4. $x^2 = 64$

Domain: real variables $x \in \mathbb{R}$

5. $x^3 = 512$

Domain: real variables $x \in \mathbb{R}$

6. $x^3 = -512$

Domain: real variables $x \in \mathbb{R}$

7. $x^2 = 81$

Domain: real variables $x \in \mathbb{R}$

8. $x^3 = 729$

Domain: real variables $x \in \mathbb{R}$

9. $x^3 = -729$

Domain: real variables $x \in \mathbb{R}$

10. $x^2 = 100$

Domain: real variables $x \in \mathbb{R}$

11. $x^3 = 1000$

Domain: real variables $x \in \mathbb{R}$

12. $x^3 = -1000$

Domain: real variables $x \in \mathbb{R}$

13. $x^2 = 121$

Domain: real variables $x \in \mathbb{R}$

14. $x^3 = 1331$

Domain: real variables $x \in \mathbb{R}$

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Square and Cube Equations

Solve square and cube equations over the real numbers.

15. $x^3 = -1331$

Domain: real variables $x \in \mathbb{R}$

16. $x^2 = 144$

Domain: real variables $x \in \mathbb{R}$

17. $x^3 = 1728$

Domain: real variables $x \in \mathbb{R}$

18. $x^3 = -1728$

Domain: real variables $x \in \mathbb{R}$

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Square and Cube Equations

Answer Key

Solve square and cube equations over the real numbers.

1. $x^2 = 49$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-7, 7\}$

2. $x^3 = 343$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{7\}$

3. $x^3 = -343$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-7\}$

4. $x^2 = 64$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-8, 8\}$

5. $x^3 = 512$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{8\}$

6. $x^3 = -512$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-8\}$

7. $x^2 = 81$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-9, 9\}$

8. $x^3 = 729$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{9\}$

9. $x^3 = -729$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-9\}$

10. $x^2 = 100$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-10, 10\}$

11. $x^3 = 1000$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{10\}$

12. $x^3 = -1000$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-10\}$

13. $x^2 = 121$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{-11, 11\}$

14. $x^3 = 1331$

Domain: real variables $x \in \mathbb{R}$

Work:
 $x \in \{11\}$

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Square and Cube Equations

Answer Key

Solve square and cube equations over the real numbers.

15. $x^3 = -1331$

Domain: real variables $x \in \mathbb{R}$

Work:

$$x \in \{-11\}$$

16. $x^2 = 144$

Domain: real variables $x \in \mathbb{R}$

Work:

$$x \in \{-12, 12\}$$

17. $x^3 = 1728$

Domain: real variables $x \in \mathbb{R}$

Work:

$$x \in \{12\}$$

18. $x^3 = -1728$

Domain: real variables $x \in \mathbb{R}$

Work:

$$x \in \{-12\}$$