

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 $x \in \mathbb{R}$

Math Sheet

Name _____ Score _____ / 18 Teacher _____ Date _____

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 $x \in \mathbb{R}$

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:

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

Math Sheet

Name _____ Score _____ / 18 Teacher _____ Date _____

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:

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