ALGEBRA 2 · HOMEWORK

Find All Real nth Roots

SCORE / 25

01 Part A · Practice

For an even index, a positive number has two real *n*th roots (±) and a negative number has none; for an odd index there is exactly one real root.

1 ●○○ How many real square roots does −16 have? Name them.

2 ●○○ Find all real fourth roots of 16.

3 ●○○ Evaluate $\sqrt[3]{8}$.

4 ●○○ Is 4 a fifth root of −243? Explain.

5 ●○○ Evaluate $\sqrt[3]{216}$.

6 ●○○ Is 20 a square root of 100? Explain.

7 ●○○ Find all real cube roots of 64.

8 ●○○ How many real fifth roots does −1024 have? Name them.

9 ●○○ Evaluate $-\sqrt{4}$.

10 ●○○ Find all real fourth roots of −625.

11 ●○○ Is 3 a cube root of 8? Explain.

12 ●○○ Is 4 a fourth root of 256? Explain.

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Preview - the full worksheet and its answer key are at primeworksheet.com