ALGEBRA 2 · HOMEWORK

Use nth Roots to Solve Equations

SCORE / 25

01 Part A · Practice

Isolate the power, then take the nth root of both sides; for an even n include ±, and a negative right side has no real solution.

1 ●○○ Solve $x^2 = 28$. Give exact answers in simplest radical form.

2 ●○○ Solve $4x^3 = 32$.

3 ●○○ Solve $(x + 9)^4 = 16$.

4 ●○○ Solve $2x^4 - 17 = 495$.

5 ●○○ Solve $x^2 = 75$. Give exact answers in simplest radical form.

6 ●○○ Solve $(x + 4)^3 = 8$.

7 ●○○ Solve $4x^4 + 12 = 76$.

8 ●○○ Solve $5x^4 = 405$.

9 ●○○ Solve $6x^2 = 216$.

10 ●○○ Solve $(x - 5)^4 = 16$.

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