NUNAVUT MATHEMATICS 10C · UNIT 2 · 5 QUESTIONS

Roots and Powers — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The value of 3^{-3} is**

- A -27
- B $\frac{1}{27}$
- C $-\frac{1}{27}$
- D 27

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2 **When written as a mixed radical in simplest form, $\sqrt{72}$ is equal to**

- A $3\sqrt{6}$
- B $4\sqrt{3}$
- C $6\sqrt{2}$
- D $9\sqrt{2}$

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3 When written as an entire radical, $5\sqrt{6}$ is equal to

- A $\sqrt{30}$
- B $\sqrt{120}$
- C $\sqrt{180}$
- D $\sqrt{150}$

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4 If $3^x = 243$, then the value of x is ____.

ANSWER _____

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5 **The value of $27^{2/3}$ is**

A 9

B 18

C 6

D 81

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ANSWER KEY

1. B
2. C
3. D
4. 5
5. A

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