

Roots and Radical Expressions Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. If n times k is k^n , then $\sqrt[n]{k^n}$ is:
 - a. n
 - b. k
 - c. k^n
 - d. None of these
2. The expression inside the radical sign is known as:
 - a. index
 - b. quotient
 - c. dividend
 - d. radicand
3. Which of these will not give a real root?
 - a. $\sqrt[2]{1}$
 - b. $\sqrt[2]{16}$
 - c. $\sqrt[2]{-100}$
 - d. $\sqrt[2]{4}$
4. Which of the following is the product property of radicals?
 - a. $\sqrt[n]{a^n} = a$
 - b. $\sqrt[n]{ab} = \sqrt[n]{a} \times \sqrt[n]{b}$
 - c. $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$
 - d. All of these.

Part B Instructions: Answer the question below.

Simplify the following expression.

$$\sqrt[4]{\frac{81x^4}{625y^4}} \times \sqrt[2]{\frac{25y^2}{9x^2}}$$