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Simplifying
Rational
Exponents
Worksheet

Mrs. E Teaches Math

Exponents Quiz

Name Ima Student

Grader _____

Answers rounded to three decimals where needed.

Grader: Please mark the questions right or wrong. If the answer is wrong, please write the correct answer.

1. $(6^3)^{-1} = -216$

2. $(16)^{\frac{1}{4}} = 4$

3. $(-2)^{\frac{4}{3}} = 2.520$

4. $(81)^{-\frac{1}{2}} = -9$

5. $(49)^{-\frac{1}{2}} = \frac{1}{7}$

6. $(64)^{\frac{2}{3}} = 16$

7. $(81)^{\frac{1}{4}}(2)^{-1} = 2$

8. $(3)^{\frac{1}{2}}(2)^{\frac{1}{2}} = \frac{3}{2}$

9. $(100)^{\frac{1}{2}}(25)^{-2} = \frac{1}{25}$

10. $\left(100^{\frac{1}{2}}\right)^2 = 10$

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