

Make sure you know how to type these in a graphing calculator!

Simplify using rational exponents:

From Semester Practice Exam

1.  $64^{\frac{1}{3}}$   
 $\sqrt[3]{64} = (4)$

5.  $64^{\frac{1}{2}} + 343^{\frac{1}{3}}$   
 $\sqrt{64} + \sqrt[3]{343}$   
 $8 + 7 = (15)$

2.  $900^{\frac{1}{2}}$   
 $\sqrt{900} = (30)$

6.  $\sqrt[3]{x^6}$   
 $\sqrt[3]{\cancel{x \cdot x} \cdot \cancel{x \cdot x} \cdot \cancel{x \cdot x}} = (x^2)$

3.  $25^{\frac{3}{2}}$  = (125)  
 $\sqrt{25^3}$  Not mental math. Use calc.

7.  $16^{\frac{3}{4}}$  Type in calc = 8  
 $\sqrt[4]{16^3} = \sqrt[4]{16 \cdot 16 \cdot 16}$   
 $\sqrt[4]{\cancel{2 \cdot 2 \cdot 2 \cdot 2} \cdot \cancel{2 \cdot 2 \cdot 2 \cdot 2} \cdot \cancel{2 \cdot 2 \cdot 2 \cdot 2}} = 8$

4.  $(x^{\frac{1}{2}})^4$   
 $x^{\frac{1}{2} \cdot 4} = x^2$   
 $(\sqrt{x})^4$   
 $\sqrt{x} \cdot \sqrt{x} \cdot \sqrt{x} \cdot \sqrt{x}$   
 $\sqrt{\cancel{x \cdot x} \cdot \cancel{x \cdot x}} = (x^2)$

8. What type of answer is obtained from  $x^{\frac{1}{2}}$  when  $x < 0$ ?  
 $\sqrt{x}$   $x$  is negative

No real square roots

9. Which is equivalent to  $y^{\frac{2}{3}}$ ?  $y^{2 \cdot \frac{1}{3}}$   
A.  $2\sqrt[3]{y}$  C.  $\sqrt[3]{y^2}$   $\sqrt[3]{y^2}$   
B.  $3\sqrt{y}$  D.  $\sqrt{y^3}$

10.  $[(1.06)^{1/4}]^4 = (1 + 0.06)^t$   
A. True  $1.06^{\frac{1}{4} \cdot 4} = 1.06^1$   
B. False

11. What is the value of  $n$  when  $16^n = 2$ ?  
A.  $\frac{1}{8}$   $16^{\frac{1}{4}} = \sqrt[4]{16}$  not 2  
B.  $\frac{1}{4}$   $16^{\frac{1}{4}} = \sqrt[4]{16} = \sqrt{2 \cdot 2 \cdot 2 \cdot 2}$   
C.  $\frac{1}{2}$   $16^{\frac{1}{2}} = \sqrt{16} = 4$

# Gradpoint Algebra2 Semester 2 Answers Rational Exponents

**Mary Jane Sterling**



## **Gradpoint Algebra2 Semester 2 Answers Rational Exponents:**

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