

Math 92  
Quiz 4  
Dividing Radical Expressions-7.4

1) Simplify by taking the roots of the numerator and the denominator. Assume all variables represent positive numbers

$$\sqrt[3]{\frac{27a^3}{8b^3}} =$$

2) Divide and if possible simplify. Assume all variables represent positive numbers

$$\frac{\sqrt[3]{189x^5y^7}}{\sqrt[3]{7x^2y^4}} =$$

3) Rationalize each denominator. Assume all variables represent positive numbers.

a)  $\sqrt{\frac{5}{7}}$

b)  $\frac{\sqrt[3]{7x}}{\sqrt[3]{25y^2}}$