

Math 98 Worksheet #2

July 2, 2007

1. Simplify the following.

(a) $\sqrt{75}$

(b) $\sqrt[3]{24}$

(c) $\sqrt[4]{r^8}$

(d) $\sqrt{98x^3}$

(e) $\sqrt[3]{250a^2b^7}$

(f) $\sqrt{\frac{x^{23}}{32}}$

(g) $-\sqrt[3]{-125x^6y^9z^{14}}$

2. Simplify the following by reducing the index of the root. (Consider the rational exponent form.)

(a) $\sqrt[12]{5^3}$

(b) $\sqrt[10]{y^5}$

3. Find the value of a given the figure below.

