

Math 0099
University of North Georgia
Summer 2015
Quiz #5

Name: Key Date: June 18, 2015

Add

1. $9\sqrt[3]{2} - \sqrt[3]{16}$

$$9\sqrt[3]{2} - \sqrt[3]{8 \cdot 2}$$

$$9\sqrt[3]{2} - 2\sqrt[3]{2}$$

$$\boxed{7\sqrt[3]{2}}$$

2. $\sqrt[4]{32a^5} - a\sqrt[4]{162a}$

$$\sqrt[4]{16 \cdot 2 \cdot (a)^4 \cdot a} - a\sqrt[4]{81 \cdot 2a}$$

$$2a\sqrt[4]{2a} - 3a\sqrt[4]{2a}$$

$$\boxed{-a\sqrt[4]{2a}}$$

3. $3\sqrt{50} - 4\sqrt{125} + 2\sqrt{98}$

$$3\sqrt{25 \cdot 2} - 4\sqrt{25 \cdot 5} + 2\sqrt{49 \cdot 2}$$

$$15\sqrt{2} - 20\sqrt{5} + 14\sqrt{2}$$

$$\boxed{29\sqrt{2} - 20\sqrt{5}}$$