

MAT 104 Quiz 23
Wednesday, November 10, 2004

1. Evaluate

$$-\sqrt{\frac{16}{9}}$$

$$-\sqrt{\frac{16}{9}} = -\frac{\sqrt{16}}{\sqrt{9}} = -\frac{4}{3}$$

2. Evaluate

$$-\sqrt[3]{-27}$$

$$-\sqrt[3]{-27} = -(-3) = 3$$

3. Evaluate

$$\sqrt[4]{-4096}$$

$\sqrt[4]{-4096}$ is not a real number

4. Use absolute values to evaluate

$$\sqrt{(-16)^2}$$

$$\sqrt{(-16)^2} = |-16| = 16$$

5. Use absolute values to evaluate

$$\sqrt{x^2 + 6x + 9}$$

$$\sqrt{x^2 + 6x + 9} = \sqrt{(x + 3)^2} = |x + 3|$$