

Name: _____
Date: _____
Class: _____

Algebra
Unit 9
HW 9-1

1) Evaluate: $\sqrt{-64}$ and $\sqrt[3]{-64}$. Why does the 3rd root exist and the square root (2nd root) not exist?

2) Evaluate: $(\sqrt{18.5})^2$ and $\sqrt{19.723^2}$

3) Evaluate: $\sqrt{5} + \sqrt{5}$

4) Evaluate: $(\sqrt{5})(\sqrt{5})$

5) Evaluate: $(\sqrt{19})(\sqrt{3})$

6) Evaluate: $5\sqrt{6} - 8\sqrt{3} + 10\sqrt{6} - 9\sqrt{3}$

7) Evaluate: $\sqrt{\frac{225}{144}}$

8) Simplify: $(\sqrt{3} - \sqrt{11})(\sqrt{5} + \sqrt{13})$

9) Simplify: $8\sqrt{7} - 2(3\sqrt{7} - 13\sqrt{9}) + 14 - 12\sqrt{7}$

10) Evaluate: $\sqrt{9y^4}$

11) Evaluate: $\sqrt{121x^2y^6}$