

Name: \_\_\_\_\_

Complete as many of the following problems as you can with your table. If your entire table finishes early, you may leave early or work on homework.

(1) Evaluate each expression.

(a)  $8^{\frac{1}{3}}$

(b)  $16^{-\frac{5}{2}}$

(c)  $125^{\frac{2}{3}}$

(d)  $81^{-3/4}$

(2) Solve each equation and check your solution(s).

(a)  $\sqrt{x} = 4$

(b)  $\sqrt[4]{x} = -5$

(c)  $\sqrt{2x+3} = 5$

(d)  $\sqrt[3]{2x+11} = 3$

(3) Solve each equation and check your solution(s).

(a)  $\sqrt[3]{3x+4} = 7$

(b)  $\sqrt{3x-9} = x-3$

(c)  $\sqrt{2x+5} + 5 - x = 0$

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