

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) Solve the following absolute inequalities. **Write your answers in interval notation.**

(a) $|x + 4| \leq 7$

(b) $|x - 6| \geq 2$

(c) $|3x - 9| > 18$

(d) $-3|x - 4| \geq -15$

(2) Evaluate each expression, or indicate that the root is not a real number.

(a) $-\sqrt{49}$

(c) $\sqrt{-25}$

(b) $\sqrt{(-6)^2}$

(d) $\sqrt{\frac{49}{100}}$

(3) Evaluate each expression, or indicate that the root is not a real number.

(a) $\sqrt[3]{8}$

(c) $\sqrt[3]{\frac{64}{27}}$

(b) $\sqrt[5]{-32}$

(d) $(\sqrt[4]{16})^3$