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

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Warm Up 2.2, 2.6 SHOW YOUR WORK!!!**

Solve the following problems by hand, use a graphing calculator to check.

1. The total (after-tax) cost of a smartphone is $500. The local sales tax rate is 8.5%. What is the retail (pre-tax) price of the smartphone?
2. Suppose and Find all *x* values such that . Other than no solution, use interval notation to express solution sets and graph each solution set on a number line.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_