

1. Answer one (1) of the following word problems. For word problems, I expect to see you assign your variable(s) in words (Let $x = \dots$) and for you to give the units (for instance, "in dollars").
 - a. If Sue can paint the kitchen in 5 hours and Ellen can paint the kitchen in 3 hours, how long will it take them to paint the kitchen if they work together?
 - b. John bought a book in a New York bookstore for \$169.03 (with tax). What's the price of the book before tax, if New York sales tax is 7%?

Solve. Write the final answer in interval notation. Leave fractions as fractions in lowest terms, even if they are improper fractions.

2. (5 pts) $|x + 2| \leq -7$

3. (5 pts) $|5x + 8| > -5$

4. $-3x + 4 \leq 18$

5. $|3x - 4| \geq 5$

6. $|2x + 3| < 7$

7. $\frac{2x+3}{4} - \frac{3x-7}{3} \geq -4$