



## (2.1) Linear Equations & Inequalities

### A Kiker Video Production Guide

- Watch N' Learn:**
- Go to <http://web.me.com/williamkiker> and click on “Pre-AP Algebra 2.”
  - Use links “Lesson 1\*” and “Lesson 2\*” to access the Kiker Production.

As you watch the video, work the examples along with me and write down any questions that arise while you watch.

**Example 1:**  $5(y - 2) = 30$

Method #1

Method #2

**Example 2:**  $1 + 8y + 4 = 6y - 3 + 4y$

**Example 3:**  $x + 8x + 4 = 9x + 4$

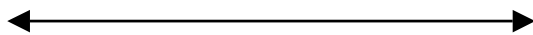
*What is this called?  
Why?*

**Example 4:**  $4(y + 5) = y - 10 + 3y$

*What is this called?  
Why?*

**Example 5:**  $10x + 7 > 13x - 11$

**Example 6:** A pen floating in the weightlessness of space is 30 inches above the floor of the space capsule and is rising at 1.5 in/sec. In how many seconds will it reach the 6-foot ceiling?

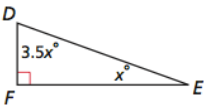




# Homework Assignment

## Solving Linear Equations & Inequalities

**Forget how to do something?** Go back and re-watch the video lesson tutorials again!

<p><b>1.</b> <math>5(x - 8) - (x + 6) = 18</math></p>	<p><b>2.</b> <math>\frac{1}{3}(2x - 7) = 4</math></p>	<p><b>3.</b> <math>6n - 7 = 2n + 17</math></p>
<p><b>4.</b> <math>9(3 - 2x) = -6(3x - 5)</math></p>	<p><b>5.</b> <math>2x + 4(x + 1) = 6(x + \frac{2}{3})</math></p>	<p><b>6.</b> <math>-3x + 8 \leq 14</math></p> <p style="text-align: center;">←————→</p>
<p><b>7.</b> <math>3(x - 1) &gt; 7(x + 3)</math></p> <p style="text-align: center;">←————→</p>	<p><b>8.</b> <math>5(x - 2) \geq 4(2x + 6) + 2</math></p> <p style="text-align: center;">←————→</p>	<p><b>9.</b> In 1902, 44 loaves of bread cost the same amount as 1 loaf in 2006. If a loaf of bread in 2006 costs \$1.72 more than in 1902, find the cost of a loaf in 1902.</p>
<p><b>10.</b> Find the measure of each angle in the triangle below.</p>  <p style="text-align: center;">←————→</p>	<p><b>11.</b> William Shakespeare wrote 37 plays, including tragedies, comedies, and histories. He wrote the same number of tragedies and histories, but the number of comedies he wrote is 3 less than twice the number of tragedies. How many of each type of play did Shakespeare write?</p>	<p><b>12.</b> What values of <math>k</math> make the equation <math>2(x - k) = 2x + 20</math> an identity? What values of <math>k</math> make the equation a contradiction?</p>