

Show all of your work to receive credit for the circuit.

<p>Answer: _____ #1 Solve by factoring: <math>x^2 - 6x = 16</math></p> <p>To move forward in the circuit, add your solutions.</p>	<p>Answer: 24 #_____ Solve the inequality. <math>-1 + \sqrt{x - 3} \leq 1</math></p> <p>Write the correct answer here: _____ To move forward in the circuit, subtract the lower bound from the upper bound.</p>
<p>Answer: <math>\frac{5}{2}</math> #_____ Solve the inequality. <math>-48 &lt; -\sqrt{4x - 12}</math></p> <p>Write the correct answer here: _____ To move forward in the circuit, subtract the lower bound from the upper bound and find the square root of that.</p>	<p>Answer: <math>\frac{4}{15}</math> #_____ Solve by factoring. <math>2x^2 + x - 15 = 0</math></p> <p>To move forward in the circuit, add your solutions.</p>
<p>Answer: 6 #_____ Solve by factoring. <math>x^2 = -4x</math></p> <p>To move forward in the circuit, look for the larger solution.</p>	<p>Answer: -8 #_____ Solve the inequality. <math>2x^2 - 5x - 3 \leq 0</math></p> <p>Write the answer here: _____ To move forward in the circuit, add the zeros.</p>
<p>Answer: 0 #_____ Solve by factoring. <math>15x^2 + 23x + 4 = 0</math></p> <p>To move forward in the circuit, multiply your solutions.</p>	<p>Answer: 7 #_____ Solve the inequality. <math>x^2 + 8x + 15 \geq 0</math></p> <p>Write the answer here: _____ To move forward in the circuit, add the zeros.</p>

<p>Answer: <math>-7</math>  #_____ Solve the equation. Check for extraneous solutions. <math>-8 + \sqrt{3x + 40} = 0</math></p>	<p>Answer: <math>-\frac{1}{2}</math>  #_____ Solve by factoring.  <math>5x^2 + 6x = -1</math></p> <p>To move forward in the circuit, add your solutions.</p>
<p>Answer: <math>1</math>  #_____ Solve the equation. Check for extraneous solutions. <math>\sqrt{-6 - 2x} = \sqrt{1 - x}</math></p>	<p>Answer: <math>1000</math>  #_____ Solve the equation. Check for extraneous solutions. <math>x + 2 = \sqrt{7x + 2}</math></p> <p>To move forward in the circuit, find the answer to one of your checks. ☺</p>
<p>Answer: <math>3</math>  #_____ Solve the equation. Check for extraneous solutions. <math>-1 + \sqrt{3x + 4} = \sqrt{3x - 5}</math></p>	<p>Answer: <math>-\frac{6}{5}</math>  #_____ Solve the equation by taking a square root.  <math>5 - 10x^2 = -155</math></p> <p>To move forward in the circuit, divide your solutions.</p>
<p>Answer: <math>-1</math>  #_____ Solve the equation by taking a square root.  <math>4x^2 - 4 = 0</math></p> <p>To move forward in the circuit, find the larger solution.</p>	<p>Answer: <math>8</math>  #_____ Solve the equation. Check for extraneous solutions. <math>\sqrt[5]{100x} = 10</math></p>

When solving a radical inequality, when do you have to find a lower bound? \_\_\_\_\_