Name: _____

Review T1 Circuit Solving EQs: Linear, Quadratic, Radical, Absolute Value Solving Linear Inequalities

Start with numbers 1 and work the problem. Find your solution among the choices. That problem becomes #2, so put #2 in the problem blank. Work that question and proceed in this manner until finished. ③

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Answer:	Answer: $x = \sqrt{5}, -\sqrt{5}$
$\#1 \frac{-7}{2} \left(\frac{5}{2} x - 2 \right) = \frac{217}{6}$	# $9x^2 - 3 = 1$
$\binom{\pi}{2}\binom{2}{2} \binom{x-2}{-6} = \frac{6}{6}$	
Answer: $x = \pm 9$	Answer: $x = 4$
$\#\10 + 6 x + 7 = 22$	
$\#_{} 10 + 0 x + 7 = 22$	# Solve the inequality and graph the solution
	$\frac{8}{5} \ge \frac{7}{2}x + \frac{33}{5} - x$
	$5 - 2^{11} - 5$
3	10
Answer: $x < \frac{3}{2}$	Answer: $x = -\frac{10}{3}$
# Solve the inequality and graph the solution	$\#_\36 = -\frac{10}{3} \left(-\frac{7}{2} x + 3 \right) + \frac{4}{3} x$
$7x + 19 \le 3(x - 3)$	$\#_{$
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	2
Answer: $x = -2$ # $-3 - 4(-7x - 3) = 6x + 9$	2 Answer: $x = \frac{-15}{2}, \frac{15}{2}$ # $\left \frac{x}{9}\right - 2 = -1$
Answer: $x = \pm \frac{2}{3}$ # $2x^2 - 2 = 16$	Answer: $x \le -2$ # Solve the inequality and graph the solution $\frac{5}{4}x + \frac{13}{6} + 1 < \frac{121}{24}$
Answer: $x = 220$ # $\frac{1}{2}\sqrt{25x} = 5$	Answer: $x = -5, -9$ # $\sqrt{14 - 2x} + 8 = -4$

Answer: $x = 0$	Answer: $x \leq -7$
$\#\{13} + 5x = 2(6 + 2x)$	# Solve the inequality and graph the solution
10 + 5x = 2(0 + 2x)	-2(1+6x) < 2x - 16
	$2(1+0\lambda) < 2\lambda = 10$
Answer: $x = \pm 3$	Answer: $x = -1$
# $2x^2 - 4 = 36$	#5 $x^2 - 4 = 21$
Answer: $x = 5$	Answer: $x = \pm 2\sqrt{5}$
$\#___\frac{1}{3}\sqrt[3]{4-x} + 5 = 3$	$\#_{} x+4 = 8$
$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$	

Answer: $x = 4, -12$	Answer: $x = -65$ (extraneous solution)
$\#_{} -4x + 2 = 32$	$\#_{3}\sqrt{2x-2} = 2$