Honors Algebra 2 Circuit: T5 Review

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

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

Γ.	
Answer:	Answer: 24
#1 Solve by factoring:	# Solve the inequality.
$x^2 - 6x = 16$	$-1 + \sqrt{x - 3} \le 1$
	Write the correct answer here:
	To move forward in the circuit, subtract the lower bound
To move forward in the circuit, add your solutions.	from the upper bound.
Answer: $\frac{5}{2}$	Answor: 4
2	Answer: $\frac{4}{15}$
# Solve the inequality.	# Solve by factoring.
$-48 < -\sqrt{4x - 12}$	$2x^2 + x - 15 = 0$
10 × VIA 12	
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.	To move forward in the circuit, add your solutions.
Answer: 6	Answer: –8
# Solve by factoring.	# Solve the inequality.
$x^2 = -4x$	$2x^2 - 5x - 3 \le 0$
To move forward in the circuit, look for the larger	Write the answer here:
solution.	To move forward in the circuit, add the zeros.
Answer: 0	Answer: 7
# Solve by factoring.	# Solve the inequality.
$15x^2 + 23x + 4 = 0$	$x^2 + 8x + 15 \ge 0$
	Write the answer here:
To move forward in the singuit multiply your colutions	To move forward in the circuit, add the zeros.
To move forward in the circuit, multiply your solutions.	To move for waru in the circuit, add the zeros.

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

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