Name

Directions: Beginning in cell #1, work the problem. Search for your answer and call that cell #2. Continue in this manner until you complete the circuit. No technology should be used to simplify these expressions and/or solve these equations.

Answer: 7	Answer: 1	Answer: 0
#1 log ₂ 8	$\# _{2} \log_2 64 - \log_2 2$	$\# _{} \log_{8^{\frac{1}{2}}}$
		_
Answer: $\sqrt{3}$	Answer: r	Answer: 2
# $\log_{e} e^{10}$	$\# \underline{\hspace{1cm}} r \log_a a^b$	# log ₃ 81
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(NOTE: If the base is e, then we call it "the natural log" and		
this problem can be also		
written as ln e ¹⁰) Answer: 3	Answer: $-\frac{1}{3}$	Answer: 9
Allswei. 5	Allswei. $-\frac{1}{3}$	Allswei.
# log ₅ 25	# log ₁₀ 0.001	# $\log 10^7$
# log ₅ 25	# log ₁₀ 0.001	# log 10 ⁷
# log ₅ 25		# log 10 ⁷
# log ₅ 25	(NOTE: If the base is 10, then	# log 10 ⁷
# log ₅ 25	(NOTE: If the base is 10, then we call it "the common log" and this problem can be also	# log 10 ⁷
	(NOTE: If the base is 10, then we call it "the common log" and this problem can be also written as log 0.001)	
# log ₅ 25 Answer: -2	(NOTE: If the base is 10, then we call it "the common log" and this problem can be also	# log 10 ⁷ Answer: 6
	(NOTE: If the base is 10, then we call it "the common log" and this problem can be also written as log 0.001)	
Answer: -2	(NOTE: If the base is 10, then we call it "the common log" and this problem can be also written as log 0.001) Answer: b	Answer: 6
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Answer:	rb $7^{\log_7 b}$	Answer: 8 # log ₆ 2 + log ₆ 3	Answer: 4 # \log_{66}^{16}
		NOTE: $\log_b a + \log_b c = \log_b(ac)$	
Answer: #		Answer: 5 # log√1000	Answer: -3 # $\log_x 3 = 4$
Answer:	$\frac{4}{3}$ 3 ln e^2	Answer: -1 # log ₇ \(\frac{1}{49} \)	Answer: 10 # $\ln e + \ln \sqrt[3]{e}$
Answer: #	$\int_{0}^{4} \sqrt{3} \log_2 x = 3$	Answer: $\frac{3}{2}$ # $\log_3 x = \frac{1}{2}$	Answer: ½ # log ₆₄ 4

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