Circuit Training

Ready to tackle a circuit covering an entire year of Calculus content? Start with the problem in the upper left box, then search for your answer in a different cell. Mark the new cell #2 and continue in the circuit until you end up back at the beginning. No calculators needed!

$e^{2}+5$	Answer: 1
Answer: $\frac{1}{4e^2}$	
#1 Write the equation of the line tangent to the graph of $f(x) = -3x^2 + 5x + 1$ at x = 1 and use it to approximate $f(1.2)$.	# Find the instantaneous rate of change of $g(x) = \ln(x+3)$ at $x = \frac{1}{2}$.
Answer: $\frac{2}{7}$	Answer: $\sqrt{19}$
$\# \underline{\qquad} \int_0^2 x \sqrt{4 - x^2} dx$	# Let R be the region bounded by the graph of $y = \sqrt{x-3}$, the line $x = 4$, and the x -axis. Calculate the volume of the solid generated when region R is rotated around the x - axis.
Answer: $\frac{14}{-}$	Answer: 0
# If $y = \tan\left(\frac{x}{3}\right)$, find $y'\left(\frac{\pi}{2}\right)$.	$\# \underline{\qquad} \int_{1}^{e} \frac{1}{x} dx$







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