Circuit – Chain Rule

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

Directions: Begin in cell #1. Take the derivative. Search for your answer. Continue in this manner until you complete the circuit.

Answer: $2x \sec(x^2 + 7) \tan(x^2 + 7)$	Answer: $2x\cos(x^2+7)$
# 1 $f(x) = (x^2 + 7)^5$	# $f(x) = (x^2 + 7)^{3/2}$
Answer: $\frac{4x^2 + 14}{\sqrt{x^2 + 7}}$ # $f(x) = \tan^2(3x^2)$	Answer: $10x(x^2+7)^4$ # $f(x) = 5\sqrt{x^2+7}$

