MATH-241 Calculus	Ι
Worksheet 04	

Created by Pierre-O. Parisé Fall 2021, 22/10/2021

Last name: _	
First name:	
Section:	

Question:	1	2	Total
Points:	10	10	20
Score:			

Instructions: You must answer all the questions below and give your solutions to the TA at the end of the recitation. Write your solutions on a different sheet of paper. No late worksheet will be accepted.

Suppose that
$$f(0) = 2$$
, $g(2) = 5$, $h(0) = -1$, $f'(0) = -3$, $g'(2) = 4$, and $h'(0) = 4$. (10 pts)

(a) (5 points) If $F = g \circ f$, then find the value of F'(0).

(b) (5 points) If H = 2f/h, then find the value of F'(0).

\square Question 2 \square (10)) p	ots)
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A person would like to build a rectangular wall and paint it. The material available only garentees that the wall will have a perimeter of 200 foot. The cost of the painting is $10\$/ft^2$. What is the dimensions that will maximize his cost?