PRINT Your Name:	Recitation Time
There are 10 problems on 4 pages. Each	problem is worth 10 points. In one
problem you are instructed to use the definition of the derivative; you MUST use	
the definition of the derivative in that problem. In the other problems you may use	
any legitimate derivative rule. SHOW your	r work. CIRCLE your answer. NO
CALCULATORSI	

1. The volume of a cube is growing at the rate of 6 cubic inches per second. Find the rate of change of the cube's surface area at the instant when each side has length 10 inches.

2. (The penalty for each mistake is five points.) The picture represents the graph of y = f(x).

