QUIZ 4 - MATH 151	
VOUR NAME:	

Monday, February 14 George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Use the limit definition of the derivative to compute the derivative of the function  $f(x) = \frac{3}{x-5}$  at x = 4. Then find an equation for the tangent line to the graph of y = f(x) at x = 4.

2. Compute the derivative of the function  $f(x) = \frac{1}{\sqrt[4]{x^3}} + 5\cos x$ .

3.	Find ar	equation	for the	tangent	line to	the gra	aph of	f(x) =	(x+1)	$\cos x$ a	t the	point	(0,1)	١.

4. Compute the derivative of the function  $f(x) = \frac{1+\sin x}{x+\cos x}$