

Name : _____

140 - Calculus I: Test 2 Extra Credit

DIRECTIONS: Show all work! There is a total of 5 points which will be added to Test 2.

1. (2 points) Differentiate:

$$f(x) = 5x - \csc(12x^2)$$

2. (3 points) Give the equation of a tangent line to the below equation at the point (-3,1):

$$x^3y - y^2x^2 + y - x = -32$$