MATH 1A – QUIZ 9

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Name:	-
Instructions: You have 22 minutes to take work! May your luck be optimized!	e this quiz, for a total of 10 points. Show your

(1) (5 points) Sketch the graph of $f(x) = \frac{\sin(x)}{1 + \cos(x)}$

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(2) (1 point) Solve the differential equation $x\left(y'\right)+y=\sec^{2}(x).$

Note: You are not allowed to use Math 1B techniques for this!

 ${\bf Hint:}\ {\bf Write}\ {\bf the}\ {\bf left-hand-side}\ {\bf in}\ {\bf the}\ {\bf form}\ ({\bf something})',\ {\bf then}\ {\bf do}\ {\bf something}$ familiar, and finally solve for y

(3) (4 points) What is the area of the largest rectangle that can be inscribed (put in) a circle of radius R?