

Name _____ raw scaled percent

Calculus Trimester 1 Quiz 4 (10 Points)
Related rates

■ **This is a take home quiz. Here are the rules; [1] You may use your book and your notes while doing the quiz. [2] You may not discuss these questions with anyone until the quizzes have all been collected. [3] The quiz is due at the start of the next class.**

■ **A. Answer the following.**

[1] Find all values of x for which the line tangent to the graph of $y = 9 \sin x \cos x$ is horizontal.

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[2] An oil spill on still water spreads in the shape of a circle. The shipping company wishes to contain the spill with a floating circular barrier. When the instantaneous rate of change of the spill's area with respect to its radius is 1200 feet, how many lineal feet of the circular barrier will be required?