

Mathematics 122

Quiz #18

Name: _____

(1) What is the period of $f(x) = 3 \sin(4x)$? _____

(2) If $y = 3 \sin(x) + 4 \cos(2x)$ find the first and second derivatives.

$y' =$ _____

$y'' =$ _____

(3) If $y = e^x \cos(x)$ find y' $y' =$ _____

(4) What is the tangent line to $y = \cos(x)$ at the point where $x = 0$? HINT: You computed the derivative in the last question.
