

Math 222- homework-4 (84)

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Marks:  $\left[ \frac{\quad}{5} \right]$

Question 1

Find  $\frac{dy}{dx}$  and simplify, where y is given by:  $3\sqrt{x} + e^{-2x} - \frac{\sin 3x}{\cos 3x}$  (Write all details)

Question 2

Find the expansion of the function  $f(x) = \cos 2x$  (Write all details)