

## Quiz 7

Please note this quiz has two sides! .

1. (2 points). Find the derivative of the function. Simplify your answer.

$$y = \sqrt{e^{\sin x}}$$

2a. (1 point). Compute the derivative of  $\tan(x)$ . You must show your work; just writing down the answer will receive no credit.

2b. (2 points). Find  $\frac{dy}{dx}$  by implicit differentiation. Simplify your answer.

$$xy = \tan(xy)$$