

Math 2250 Quiz 4.5 (Practice)

Name _____ Section _____

Points will be deducted for untidy or disorganized answers

1. (2 points) Use the definition of the derivative to find $f'(x)$ when

$$f(x) = \cos x$$

You will need to use the addition formula for cosine:

$$\cos(A + B) = \cos A \cos B - \sin A \sin B.$$

2. (3 points) Use the differentiation rules to find the derivatives of

(a) $g(x) = \frac{\sin x}{x \tan x}$

(b) $h(x) = e^{-x} \cos x$ (*Recall that $e^{-x} = 1/e^x$*)