

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

1. Use logarithmic differentiation to find the derivative of the function  $y = \sqrt{e^x \sin(x) \cos(x)}$ .

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

QUIZ 14 ♣

MATH 200  
October 24, 2022

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1. Use logarithmic differentiation to find the derivative of the function  $y = x^2 e^x \sin(x) \cos(x)$ .

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

1. Use logarithmic differentiation to find the derivative of the function  $y = \frac{1}{e^x \sin(x) \cos(x)}$ .

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

QUIZ 14 ♠

MATH 200  
October 24, 2022

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1. Use logarithmic differentiation to find the derivative of the function  $y = xe^x \sin^2(x)$ .