Name: _____

Quiz 10 ♡

MATH 200
October 5, 2022

Directions: Differentiate the functions.

1. $y = e^{6x-4}$

2. $y = \sqrt{x^2 + 4}$

3. $z = \cos^2(w)$

4. $y = \left(\dfrac{x^2 \sin(x)}{e^x}\right)^4$

5. $D_x\left[\left(e^{\cos(x)+4}\right)^5 + x\right] =$

Name: _____

Quiz 10 ♣

MATH 200
October 5, 2022

Directions: Differentiate the functions.

1. $y = \sin(7x + \pi)$

2. $z = \sqrt[3]{w^3 + 8}$

3. $y = \sec^2(x)$

4. $y = \sec\left(x^2\right)$

5. $D_x \left[\, x \, e^{\tan(3x)+1} \, \right] =$

Name: _____

Quiz 10 ♢

MATH 200
October 5, 2022

Directions: Differentiate the functions.

1. $y = \sqrt{5x+1}$

2. $y = \cos(x^2)$

3. $y = \cos^2\left(x^2\right)$

4. $z = \tan\left(\dfrac{e^w}{w+1}\right)$

5. $y = e^{\tan(3x)+x} + x^2$

Name: _____

Quiz 10 ♠

MATH 200
October 5, 2022

Directions: Differentiate the functions.

1. $z = \sqrt{4w^2 + 16}$

2. $y = e^{x^2 - x}$

3. $y = \sin\left(e^{x^2 - x}\right)$

4. $y = \left(4x^5 \cos(x) + 1\right)^{10}$

5. $D_x \left[\dfrac{e^{\tan(x)}}{x} \right] =$