

# Math 1A Practice Quiz

October 8, 2018

Calculate the derivatives of the following functions. [10 questions - 6 minutes]

## Question 1

$$f(x) = \sqrt[3]{x}$$

## Question 2

$$f(x) = \tan(x)$$

## Question 3

$$f(x) = -\frac{1}{x}$$

## Question 4

$$f(x) = x^{100} + \frac{1}{x^{100}}$$

**Question 5**

$$f(x) = -\sin(e^x)$$

**Question 6**

$$f(x) = 3^x$$

**Question 7**

$$f(x) = \sec(x)$$

**Question 8**

$$f(x) = e^{\cos(x)}$$

**Question 9**

$$f(x) = e^{-2x} + e^{2x} + 1$$

**Question 10**

$$f(x) = \sin(e^x) + \cos(e^x)$$