

# CALCULUS I

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

## CHAPTER 10: TRIGONOMETRIC DERIV

Find the derivative of each of the following.

1.  $y = 2\sin x + \cos x$

2.  $y = \frac{\cos^2 x + 3\sin^2 x}{\cos x}$

3.  $y = \frac{\sin x + \cos^2 x}{\cos x}$

4.  $y = \tan x (\cos x + \sin x)$

5.  $y = 3x + \cos x$

6.  $y = \frac{\cos x}{8 + \cos x}$

7.  $y = \sec 8x$

8.  $y = -\sin^2 x$

9.  $y = 3\sec(2x^2 + 4x)$

10.  $y = \cos(2x + \pi)$

11.  $y = \cos(\pi(2x + 1))$

12.  $y = \cos^2(-4x^2 + 8)$

13.  $\sin y = x$

14.  $2x^2 + \cos y = 2x$

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

Find the second derivative of each of the following.

16.  $y = 2x^2 \sin x + \cos x$

17.  $x^2 + y^2 = 12$

18. Find the equation of the tangent to  $y = \sin x$  at  $x = \pi$ .

19. Find the equation of the tangent to  $y^2 = 2x + 2x - 1$  at  $(7, 2)$ .

# Calculus Chapter 3

**AW Rasmussen**



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## Enjoying the Beat of Appearance: An Psychological Symphony within **Calculus Chapter 3**

In a global eaten by displays and the ceaseless chatter of fast transmission, the melodic splendor and emotional symphony developed by the prepared term usually diminish into the background, eclipsed by the constant sound and interruptions that permeate our lives. But, situated within the pages of **Calculus Chapter 3** an enchanting fictional value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts viewers on a psychological journey, well unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths of the poignant review, we can discover the book is main harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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