

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

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

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