

Name: _____

AP Calc BC

Trig Derivatives

1. $f(x) = \sin x \cot x$

2. $f(x) = \frac{\tan x}{1+x^2}$

3. $g(w) = \frac{1 + \sec w}{1 - \sec w}$

4. $k(v) = \frac{\csc v}{\sec v}$

5. $k(x) = \sin(x^2 + 2)$

6. $f(t) = \cos(4 - 3t)$

7. $H(x) = \cos^5 3x$

8. $g(x) = \sin^4(x^3)$

9. $t(z) = \sec(2z + 1)^2$

10. $r(a) = \csc(a^2 + 4)$

11. $H(s) = \cot(s^3 - 2s)$

12. $f(x) = \tan(2x^2 + 3)$

13. $f(x) = \cos(3x^2) + \cos^2 3x$

14. $g(w) = \tan^3 6w$

15. $F(t) = \csc^2 2t$

16. $M(x) = \sec\left(\frac{1}{x^2}\right)$

17. $K(z) = z^2 \cot 5z$

18. $H(x) = x \csc(x^2)$

19. $L(x) = \tan^2 x \sec^3 x$

20. $H(u) = u^2 \sec^3 4u$

21. $N(x) = (\sin 5x - \cos 5x)^5$

22. $p(v) = \sin 4v \csc 4v$

23. $F(x) = \frac{\cos 4x}{1 - \sin 4x}$

24. $f(x) = \frac{\sec 2x}{1 + \tan 2x}$

25. $t(x) = (\tan 2x - \sec 2x)^3$

26. $f(x) = \sin \sqrt{x} + \sqrt{\sin x}$

27. $f(x) = \tan \sqrt[3]{5 - 6x}$