

AP CALCULUS  
MEMORIZATION QUIZ  
5 POINTS

NAME:

PERIOD:

---

1.  $D_x [f(x)^n] =$

2.  $D_x [e^{f(x)}] =$

3.  $\int e^u du =$

4.  $D_x [\csc f(x)] =$

5.  $D_x [\tan f(x)] =$

6.  $\int \sec^2 u du =$

7.  $D_x [f(x)g(x)] =$

8.  $\ln e^{f(x)} =$

9.  $\int a^u du =$

10.  $D_x [\log_a f(x)] =$

11.  $\int \sin u du =$

12.  $D_x [\tan^{-1} f(x)] =$

13.  $D_x [\csc^{-1} f(x)] =$

14.  $\int \cot u du =$

15.  $D_x \left[ \frac{f(x)}{g(x)} \right] =$

16.  $\int \csc u du =$

17.  $D_x [\sin^{-1} f(x)] =$

18.  $\int \sec u \tan u du =$

19.  $D_x [\cos f(x)] =$

20. For  $n \neq -1$ ,  $\int u^n du =$

21.  $D_x [f(g(x))] =$

22.  $\int \frac{1}{u} du =$

23.  $e^{\ln f(x)} =$

24.  $D_x [\sin f(x)] =$

25.  $\int \cos u du =$

26.  $\int \frac{1}{\sqrt{a^2 - u^2}} du$

27.  $D_x [\cot f(x)] =$

28.  $\ln e =$

29.  $D_x [\ln f(x)] =$

30.  $\int \csc^2 u du =$

31.  $D_x [\sec f(x)] =$

32.  $D_x [\cos^{-1} f(x)] =$

33.  $\int \tan u du =$

34.  $\int \sec u du =$

35.  $\ln 1 =$

36.  $D_x [\cot^{-1} f(x)] =$

37.  $\int \frac{1}{u\sqrt{u^2 - a^2}} du =$

38.  $D_x [\sec^{-1} f(x)] =$

39.  $\int \csc u \cot u du =$

40.  $D_x [a^{f(x)}] =$

41.  $\int \frac{1}{a^2 + u^2} du =$