

DERIVADAS

1. $g(x) \pm f(x) \quad g'(x) \pm f'(x)$

2. $g(x).f(x) \quad g(x).f'(x) + g'(x).f(x)$

3. $g(x) \quad g'(x).f(x) - f'(x).g(x)$

$f(x) \quad [f(x)]^2$

4. $\text{Ln } f(x) \quad \underline{f'(x)}$

$f(x)$

5. $a^{g(x)} \quad a^{g(x)}. \text{Ln}(a).g'(x)$

6. $e^{g(x)} \quad e^{g(x)}.g'(x)$

7. $f(x)^m \quad m.f(x)^{m-1}.f'(x)$

8. $\log_a[g(x)] \quad \underline{g'(x)} \cdot \log_a e$

$g(x)$

9. $f(x)g(x) \quad f(x)g'(x) + g(x).f'(x) - 1.f'(x)$

10. $a^{f(x)} \quad a.f'(x)$

11. a^0

12. $\text{Sen}[g(x)] \quad \text{Cos}[g(x)].g'(x)$

13. $\text{Cos}[g(x)] \quad -\text{Sen}[g(x)].g'(x)$

14. $\text{Tang}[g(x)] \quad \text{Sec}^2[g(x)].g'(x)$

15. $\text{Ctang}[g(x)] \quad -\text{Csc}^2[g(x)].g'(x)$

16. $\text{Sec}[g(x)] \quad \text{Sec}[g(x)].\text{Tan}[g(x)].g'(x)$

17. $\text{Csc}[g(x)] \quad -\text{Csc}[g(x)].\text{Ctang}[g(x)].g'(x)$

18. $\text{Arcotang}[g(x)] \quad \underline{g'(x)}$

$1+g^2(x)$

19. $\text{ArcoCtang}[g(x)] \quad - \underline{g'(x)}$

$1+g^2(x)$

20. $\text{ArcoSen}[g(x)] \underline{g'(x)}$

" $1-g^2(x)$

21. $\text{ArcoCos}[g(x)] - \underline{g'(x)}$

" $1-g^2(x)$

22. $\text{ArcoSec}[g(x)] \underline{g'(x)}$

$g(x) \sqrt{g^2(x)-1}$

23. $\text{ArcoCsc}[g(x)] - \underline{g'(x)}$

$g(x) \sqrt{g^2(x)-1}$

24. $n''u \underline{n''u . u'}$

$n.u$