Derivadas	**Integrais**
1. $(u.v)' = u'v + uv'$	1. $\int a(u \pm v) = a\int u\,dx \pm a\int v\,dx$
2. $\left(\frac{u}{v}\right)' = \frac{u'v - v'u}{v^2}$	2. $\int u'u^n\,dx = \frac{u^{n+1}}{n+1} + C, n \neq -1$
3. $\left(u^n\right)' = nu^{n-1}u'$	3. $\int \frac{u'}{u}dx = \ln\lvert u\rvert + C$
4. $\left(e^u\right)' = u'e^u$	4. $\int u'e^u\,dx = e^u + C$
5. $\left(a^u\right)' = u'a^u\ln(a)$	5. $\int u'a^u\,dx = \frac{a^u}{\ln(a)} + C$
6. $\left(u^v\right)' = vu^{v-1}u' + v'u^v\ln(u)$	6. $\int u'\operatorname{sen}(u)\,dx = -\cos(u) + C$
7. $(\ln(u))' = \frac{u'}{u}$	7. $\int u'\cos(u)\,dx = \operatorname{sen}(u) + C$
8. $\left(\log_a(u)\right)' = \frac{u'}{u\ln(a)}$	8. $\int u'\sec^2(u)\,dx = \operatorname{tg}(u) + C$
9. $(\operatorname{sen}(u))' = u'\cos(u)$	9. $\int u'\operatorname{cosec}^2(u)\,dx = -\operatorname{cotg}(u) + C$
10. $(\cos(u))' = -u'\operatorname{sen}(u)$	10. $\int u'\sec(u)\operatorname{tg}(u)\,dx = \sec(u) + C$
11. $(\operatorname{tg}(u))' = u'\sec^2(u)$	11. $\int u'\operatorname{cosec}(u)\operatorname{cotg}(u)\,dx = -\operatorname{cosec}(u) + C$
12. $(\operatorname{cotg}(u))' = -u'\operatorname{cosec}^2(u)$	12. $\int \frac{u'}{1+u^2}dx = \operatorname{arctg}(u) + C$
13. $(\sec(u))' = u'\sec(u)\operatorname{tg}(u)$	13. $\int \frac{u'}{\sqrt{1-u^2}}dx = \operatorname{arcsen}(u) + C$
14. $(\operatorname{cosec}(u))' = -u'\operatorname{cosec}(u)\operatorname{cotg}(u)$	14. $\int u'\operatorname{tg}(u)\,dx = -\ln\lvert\cos(u)\rvert + C$
15. $(\operatorname{arcsen}(u))' = \frac{u'}{\sqrt{1-u^2}}$	15. $\int u'\operatorname{cotg}(u)\,dx = \ln\lvert\operatorname{sen}(u)\rvert + C$
16. $(\operatorname{arccos}(u))' = -\frac{u'}{\sqrt{1-u^2}}$	16. $\int u'\sec(u)\,dx = \ln\lvert\sec(u) + \operatorname{cotg}(u)\rvert + C$
17. $(\operatorname{arctg}(u))' = \frac{u'}{1+u^2}$	17. $\int u'\operatorname{cosec}(u)\,dx = -\ln\lvert\operatorname{cosec}(u) + \operatorname{cotg}(u)\rvert + C$
18. $(\operatorname{arccotg}(u))' = -\frac{u'}{1+u^2}$	