Tema: Integrales Indefinidas

1. $\int \frac{e^{\arctan x} + x\ln(1+x^2)+1}{1+x^2}dx$
2. $\int \frac{\arcsin x + x}{\sqrt{1-x^2}}dx$
3. $\int \sqrt{\frac{\ln(x+\sqrt{x^2+1})}{1+x^2}}dx$
4. $\int \frac{(x^2+1)dx}{\sqrt{x^3+3x}}$
5. $\int \frac{x^2dx}{(a+bx^3)^2}$
6. $\int e^x\sqrt{a-be^x}dx$
7. $\int \frac{dx}{3^x+5}$
8. $\int \frac{2x-5}{3x^2-2}dx$
9. $\int \frac{(8x-3)dx}{\sqrt{12x-4x^2-5}}$
10. $\int \frac{(6-x)dx}{\sqrt{4x^2-12x+7}}$
11. $\int \frac{dx}{e^{2x}+3}$
12. $\int \frac{\arctan(\sqrt{x})}{(1+x)\sqrt{x}}dx$
13. $\int \frac{1+\cos(2x)}{\sin^2(2x)}dx$
14. $\int \frac{(2a^2-x^2)x^3}{(a^2-x^2)^{3/2}}dx$ Sugerencia:$x = acos(t)$
15. $\int \frac{dx}{x^2\sqrt{1-x^2}}$ Sugerencia:$x = \frac{1}{t}$

16. $\int \frac{dx}{(1+x^2)^{3/2}}$ Sugerencia:$x = \tan(t)$

17. $\int \frac{\cos(\sqrt{x})}{\sqrt{x}} dx$ Sugerencia:$t = \sqrt{x}$

18. $\int \frac{x(x^2+1)}{\sqrt{5+x^2}} dx$ Sugerencia:$5 + x^2 = t^2$

19. $\int \frac{x - \sqrt{x}}{x - \sqrt[3]{x^2}} dx$ Sugerencia:$x = t^6$

20. $\int \frac{e^{2x}}{\sqrt[4]{e^x + 1}} dx$ Sugerencia:$e^x + 1 = t^4$