p"3"N pfocG1/k I f(x) 7/3/100, 001/9/6 (A) 1) $\int x^n dx = \frac{x^{n+1}}{n+1} + c$ f(x)dx = f(x) + C2) $\int e^x dx = e^x + c$ 3) $\int \frac{dx}{x} = \ln|x| + C$ Sf(ax+b)dx = & f(ax+b)+c 237112N 'a"N freg'k 4) [cosxdx = sinx+c $astby = \frac{1}{a} \int (ax+b) d(ax+b) d(a$ 5) Ssinx dx = -cosx+C 6) $\int \frac{1}{\cos^2 x} dx = \tan x + C$ 7) $\int \frac{1}{1+x^2} dx = ax + c dx + c$ 8) $\int \frac{1}{\sqrt{1-x^2}} dx = avesihx + e$ $\int \frac{dx}{(1-2x)} = \frac{|n|(1-2x)}{n} + C = -\frac{1}{2}|n|(1-2x) + C = -\frac{1}{2}|n|($ לוז היאם מזרכה בלא נכפלת הנגצרת פת'מ'ת

P"ION Kef \$526/16 12/1/0/1/2 $\int \frac{(x^{\frac{1}{6}})^3 dx}{(x^{\frac{1}{6}})^2 + 1} =$ df=6x 6dx /. 6x 8 $6\left[\frac{t^{7}}{7} - \frac{t^{5}}{5} + \frac{t^{3}}{3} - t + alctg t\right] + c =$ t6-t4t-1 $= \frac{6x\sqrt[6]{x}}{7} - \frac{6\sqrt[6]{x^5}}{5} + \frac{6\sqrt[6]{x^3}}{3} = \frac{6\sqrt[6]{x}}{5} + \frac{6\sqrt[6]{x}}{3} = \frac{6\sqrt[6]{x$ $= \frac{1}{105} \left(90 \times \sqrt{1} - 126 \sqrt{x^5} + 210 \sqrt{x} - 630 \sqrt{x} \right) + 60 \cot y \sqrt{x} + C$ p/p/pp 7/3,66/4 III (f.g)= fg+fg' S(fg)dx = Sfgdx+Sfg'dx p'jlos n'3 regik de l'np't Ifgdx = f.g - Sfg'dx Sx" Inx dx Ix "ekxdx $\frac{f'=1}{g=1nx} p'n'yn \int lnxdx \int \frac{f'=x^n}{g=1nx}$ $\frac{f'=1}{g=1nx} p'n'yn \int lnxdx \int \frac{f'=x^n}{f=x^{n+1}}$ Ix arctgxdx $f'=x^n$ g=arctgxאנגלים בתהליך של אינה ליל הצירת בנותצים כצונלית 268 Nta 13, 28,31/7-1 267 Nta8,3/7 3) $\int xe^{\sqrt{x^2-1}}dx = \int \frac{xe^{\sqrt{t-1}}dt}{2x} = \int \frac{e^{\sqrt{t-1}}dt}{2}$ $|t=x^2| \Rightarrow dt = 2xdx \Rightarrow |dt = dx|$ $ds = \frac{1}{2\sqrt{t-1}} dt$ $= e^{\sqrt{x^2 - 1}} (\sqrt{x^2 - 1} - 1) + c$ avt-1 ds = dt 25ds = dt

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1/10N Kl /26/1/2 3/1/2
                    (8) \int x \ln(x^2+1) dx = \int \frac{x}{2x} \ln t dt = \int \frac{1}{2} \ln t dt = \int \frac{1}{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              t = x^2 + 1 \Rightarrow alt = 2x dx \Rightarrow dx = \frac{dt}{2x}
                          = t/nt - Solt = t/ut-t+c=
                = (x^{2}+1)/n(x^{2}+1)-x^{2}+c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             f'=1/ht | f=k
                    (3) \int \frac{\ln(\ln x)}{x} dx = \int \ln t dt = t \ln t - t + c =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 7,237)

t = Inx => dt = \fdx => xdt = dx

\( \frac{\frac{x}{2\lambda} \text{ND}}{\text{8} \frac{x}{2\lambda} \text{ND}} \)
                                        = lnx[ln(lnx)] - lnx + c
                (28) \int x^2 a s c t g(t) dx = \int -x^2 a s c t g t dt =
                           \int -\frac{1}{t^{y}} arctg t dt = arctg t -\frac{1}{3} \frac{1}{t^{3}(1+t^{2})} dt = t -\frac{1}{x^{2}} dx = -\frac{1}{x^{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g = arct_3 t
f = -\frac{t^{-3}}{3} = \frac{t^{-3}}{3}
                                                       1 = A + At^{2} + Bt + Bt^{3} + Ct^{2} + Ct^{4} + Dt^{4} + Ct^{3}
\begin{cases} A = 1 \\ B = 0 \end{cases}
A + C = 0 \Rightarrow C = -1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9= 1++2
                                                                          \begin{pmatrix} B+G=0 \Rightarrow G=0 \\ C+D=0 \Rightarrow D=1 \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                      t-3 -25/010
                                                                   \frac{\operatorname{archg}(\frac{1}{x})}{3(\frac{1}{x})^3} - \frac{1}{3} \int_{-\frac{1}{x}}^{\frac{1}{x}} \frac{1}{t} + \frac{t}{1+t^2} dt = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{t}{2} + \ln|t| - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{archg}(\frac{1}{x}) - \frac{1}{2} \ln(1+t^2) \right) + C = \frac{1}{3} \left( x^3 \operatorname{arc
                                     = \frac{1}{2} \left[ x \frac{3}{2} \cdot \frac{1}{2} + \left| 1 \left| \frac{1}{2} + \frac{1}{2} \left| \frac{1}{2} \left| \frac{1}{2} \right| \fr
     (31) \int ascsin x dx = xascsin x - \int \frac{x dx}{\sqrt{1-x^2}} =
                     = x a x c s in x - \int \frac{dt}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x + \int \frac{ds}{\sqrt{1-t'}} = x a x c s in x c 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       f = 1
g = arcsinx \mid g' = \frac{1}{\sqrt{1 + v^2}} dx
                                    XarcsihX + \sqrt{5} + c = XarcsinX + \sqrt{1-x^2} \frac{3''A}{7} c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      t=x^2 \Rightarrow dt = 2xdx \Rightarrow dt = xdx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          s=1-t = ds=-dt = dt=-ds
                 \int \frac{\ln^2 x \, dx}{x^3} = \int \frac{t^2 \cdot x \, dt}{x^2} = \int \frac{t^2 \, dt}{(e^t)^2} = \int t^2 - 2t \, dt = 
-\frac{1}{2}t^2 - 2t + \frac{1}{2} \cdot 2fte^{-2t} = -\frac{1}{2}t^2 - 2t + (-\frac{1}{2})te^{-2t} + \frac{1}{2}e^{-2t}dt = 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15/268 DAY136 ('ED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \frac{11230}{t=\ln x} \Rightarrow dt = \frac{1}{x} dx \Rightarrow xdt = dx
= - 1/(nx)2-2/nx - 1/nx e-2/nx - 1e-2/nx + C =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                f=e-2+
           -\frac{\ln x}{2x^2} - \frac{\ln x}{2x^2} - \frac{1}{4x^2} + C = \frac{-2\ln^2 x - 2\ln x - 1}{4x^2} + C

\frac{g = t^2}{f = -\frac{1}{2}e^{-2t}}

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             e^{-2/nx} = e^{/nx^{-2}}
```

19/6 1/12 N'E BEG FINOI" of Pn(x) -1 Pm(x) rela Pm(x) I'S) DON SEF FOEG'LE IV Pn(x) -1 m 130N Pn(x) prod - tanks Pe(x) roles le seas Pn(x) -2 Pm(x) p'p(DN sk m7, n pk 100 Lilo $\frac{P_{e}(x)}{P_{n}(x)} = \frac{P_{e}(x)}{(a_{1}x+b_{1})(a_{2}x+b_{2})(a_{3}x^{2}+b_{3}x+c_{3})^{2}}$ $\ell < n$ resco $\frac{P_m(x)}{P_n(x)} = P_k(x) + \frac{P_e(x)}{P_n(x)}$ ונית כי (אות פריק והתקהל $=\frac{A}{(a_1x+b_1)^{r}}+\frac{B}{(a_1x+b_1)^{r-1}}+\dots+\frac{C}{a_1x+b_1}+\frac{D}{(a_2x+b_2)^{s}}+\dots$ $P_n(x) = (a_1x+b_1)^r(a_2x+b_2)^s(a_3x+b_3x+c_3)^t$ $+\frac{E}{a_{2}x+b_{2}}+\frac{Fx+G}{(a_{3}x^{2}+b_{3}x+c_{3})^{t}}+...+\frac{Jx+J}{a_{3}x^{2}+b_{3}x+c_{3}}$ * $\int_{(a_1 x + b_1)^r}^{A} dx = \int_{(a_1 x + b_1)^r}^{A} dx = \frac{A(a_1 x + b_1)^{r+1}}{-r+1} = -\frac{A}{(r-1)(a_1 x + b_1)^{r-1}}$ ** $\int \frac{dx}{a_1x+b_2} = \frac{\ln|a_1x+b_2|}{a_1} + C$ *** $\int \frac{I_{x+J}}{q_{3}x^{2}+b_{3}x+C_{3}} dx = \int \frac{I_{x+J}}{R(x+T)^{2}+S} dx =$ $\int \frac{Ix \, dx}{R(x+T)^2 + S} + \int \frac{J \, dx}{R(x+T)^2 + S} =$ $4 = (x+J)^2, \quad du = 2(x+T) \, dx$ ~ 13 16 25 ~ 13 N/c 0 15 1 1 1 ple (15) 1310)

R(x+T) + 5 $\frac{1}{2} \int \frac{(2x+7)^2 + 5}{R(x+7)^2 + 5} du + \int \frac{1}{R(x+7)^2 + 5} du = \frac{1}{2} \int \frac{2(x+7)}{R(x+7)^2 + 5} dx + \int \frac{(J-2T)}{R(x+7)^2 + 5} dx = \frac{1}{2} \int \frac{2(x+7)}{R(x+7)^2 +$ $=\frac{1}{2}\int \frac{du}{Ru+S}+\left(T-2T\right)\int \frac{dx}{R(x+T)^{2}+S}=$ $=\frac{I}{2}\ln\left|Ru+S\right|+\left(\overline{J-2T}\right)\operatorname{arctg}\frac{\sqrt{R(x+T)}}{\sqrt{S}}+C$ *** $\int \frac{(2x+3) dx}{2x^2 + 4x + 8} = \int \frac{(2x+3) dx}{2(x^2 + 2x + 4)}$ $\int_{0}^{1} \int_{0}^{1} \frac{y'k}{x'} dx = \int_{0}^{1} \frac{(2x+3) dx}{x'} = \int_{0}^{1} \frac{(2x+3) dx}{x$ $=\frac{1}{2J}\frac{(2x+3)dx}{(x+1)^2-1+4}=\frac{1}{2J}\frac{(2x+2)dx}{(x+1)^2+3}+\frac{1}{2J}\frac{(2x+2)dx}{(x+1)^2-2x+2}+\frac{1}{2J}\frac{(2x+2)dx}{(x+1)^2-2x+2}$ $\int \frac{1dx}{(x+1)^2 + 3} = \frac{1}{2} \int \frac{dy}{y+3} + \int \frac{dy}{y^2 + 3}$ = 1/n/u+3/+ farctg × + C = $\sqrt{2} + a^2 = 3 = \sqrt{3}$ $\frac{1}{2} \ln \left[(x+1)^2 + 3 \right] + \frac{1}{\sqrt{3}} \arctan \left(\frac{x+1}{\sqrt{3}} + \frac{1}{\sqrt{3}} \right)$ dv = x + 1**** $\int \frac{F_{X}+G}{(a_{3}X^{2}+b_{3}X+C_{3})t} dx$ אתמילים u= 93x2+63x+G 1= Ax + 8Ax 7 16A + Bx2 + Cx + Dx + Ex 3 40x7 1-22 4+D=0 16A=1 A=16 46 $\frac{Dx+E}{x^2+4}dx =$ $\frac{1}{16} \int_{X}^{1} dx + \left(-\frac{1}{4}\right) \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} - \frac{1}{16} \int_{X}^{1} \frac{x dx}{x^{2} + 4} = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right] = \frac{1}{16} \left[\ln|x| - \frac{1}{32} \ln(x^{2} + 4) - \frac{1}{4} \int_{X}^{1} \frac{x dx}{(x^{2} + 4)^{2}} \right]$ $\frac{1}{16} \ln |x| - \frac{1}{32} \ln (x^2 + 4) - \frac{1}{8} \int_{u^2}^{(3)} = \frac{1}{16} \ln |x| - \frac{1}{32} \ln (x^2 + 4) + \frac{1}{8(x^2 + 4)} + C$

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P"ION KI DOG / 12 5/1 0/1/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               אינשרציר פונוצינת שריאונותשריע
                                        * \int \frac{dx}{\cos^2 x} = tg x + c \int \frac{dx}{\sin^2 x} = -\cot x + c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      117125f 1x30
                                                               \int \cos^2 x \, dx = \int \frac{1 + \cos 2x}{2} \, dx = \int \frac{1}{2} \, dx + \frac{1}{2} \int \cos 2x \, dx = \frac{1}{2} x + \frac{1}{4} \sin 2x + C
                                                                  \int \sin^2 x \, dx = \int \frac{1 - \cos 2x}{2} \, dx = \int \frac{1}{2} \, dx - \frac{1}{2} \int \cos 2x \, dx = \frac{1}{2} x - \frac{1}{4} \sin 2x + C
                                                                  \int \frac{\sin^{2k+1} x \, dx}{\cos^{2m+1} x} \int \frac{\sin^{2k} x \cdot \sin^{2k} x}{\cos^{2m+1} x} \int \frac{\sin^{2k} x \cdot \sin^{2k} x}{\cos^{2m+1} x} = -\int \frac{(\sin^{2k} x)^{k} \cos^{2k} x}{\cos^{2m+1} x}
                                                                                                                                                                                            אנוני, אלר א ארץ ארק ארתב
אפר דין ארץ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               t= cosx - 1-t2 dt 737691/k

\int \frac{\sin^3 x}{\cos^5 x} dx = \int \frac{\sin^2 x \cdot \sin x}{\cos^5 x} = -\int \frac{(1 - \cos^2 x)}{\cos^5 x} d\cos x = -\int \frac{(1 - t)^3}{t^5} dt = -\int \frac{dt}{t^5} + \int \frac{dt}{t^6} dt = -\int \frac{dt}{t^6} + \int \frac{dt}{t^6} dt 
                                              \frac{1}{4} + \frac{1}{2} \frac{1}{3} \frac{
                       *** \int \frac{\sin^2 x \, dx}{\cos^2 m_{\chi}} = \int \frac{(\sin^2 x)^k dx}{\cos^2 m_{\chi}} = \int \frac{(h-\cos^2 x)^k dx}{\cos^2 m_{\chi}}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (1-cos2x) kp/n/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ובל אחד ממרכים המונה אלשה א משבים באפרד. לאחלים באפרד ובל אינשביל מחשבים באפרד.
                                                    \int \frac{\cos^4 x}{\sin^2 x} dx = \int \frac{(1-\sin^2 x)^2 dx}{\sin^2 x} = \int \frac{1-2\sin^2 x + \sin^4 x}{\sin^2 x} dx = \int \frac{12/275}{\sin^2 x} \frac{|12/275|}{\sin^2 x} \frac
          =-cotanx-2x+2x-4sin2x+C
      **** Sacosx + bsinx dx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \int \frac{a\cos^2x + b\sin^2x}{\cos^2x + d\sin^2x} dx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -1732 BIN'E
10'3 CN 11/2 C'
                                      COSX - \alpha | \alpha 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       אתלקים אונהואמנה ב- Cosx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \frac{1}{\cos^2 x} = 1 + tg^2 x
                                                                                                                                                                                                                                                                                                                                                                                                \int \frac{\sin x + \cos x}{\cos x - 2\sin x} dx = \frac{\left(\frac{\sin x}{\cos x} + 1\right) dx}{1 - 2\frac{\sin x}{\cos x}}
                                                                                                                                                                                                                 9+0 6+0
 \int \frac{t+1}{1-2t} \cdot \frac{dt}{1+t^2} = \int \frac{t+1}{(1-2t)(1+t^2)} dt = \int \frac{A}{1-2t} + \frac{Bt+C}{1+t^2} dt = \int \frac{t}{t} = \frac{t}{
=-0.6|n|1-2t|+0.3|n|1+t<sup>2</sup>|-0.2 arctg t+c=0.6|n|1-2tgx|+0.3|n(1+tg<sup>2</sup>x)-0.2x+c 5B=3 B=\frac{3}{5} arctg (tgx)=x
    =-0.6/n/ cosx-2sinx +0.3/n 1 -0.2x+c = -0.6/n/cosx-2sinx cosx-0.2x+c
                                                                                                                                                                                                                                                                                                                                                                                                       \ln \cos^{-2} x = -2 \ln|\cos x|
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