cálulo 2, stement vol. 1, ed. 8, cap 7.3 1 $\int \frac{1}{x^2 \sqrt{4-x^2}} dx$ $\begin{cases} x = 2 \text{ sen}(\theta) \text{ and } -\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2} \end{cases}$ $dx = 2 \text{ cas}(\theta) d\theta$ $e \theta \neq 0$ $\Rightarrow \int \frac{1 \cdot 2 \cos (\theta)}{\left(2 \operatorname{nen}(\theta)\right)^2} \sqrt{4 - \left(2 \operatorname{nen}(\theta)\right)^2} \qquad \Rightarrow \begin{cases} \frac{1}{2} \cos (\theta) & d\theta \end{cases}$ $= \begin{cases} \cos_2(\theta) & d\theta = \begin{cases} \cos_2(\theta) & d\theta \end{cases} \\ \frac{1}{2 \cdot 2 \cdot n^2(\theta) \cdot \sqrt{4(1-2 \cdot n^2(\theta))}} & \int_{-\infty}^{\infty} \sin^2(\theta) \cdot 2 \cdot \sqrt{(1-2 \cdot n^2(\theta))} \cdot \sqrt{4} \end{cases}$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= \frac{1}{4} \int \cos^2(\theta) d\theta \qquad \sqrt{\cos^2(\theta)} = |\cos_2(\theta)|, \text{ and } \sin \theta \text{ od} \theta$ $= 1 \left(\frac{\cos(\theta)}{d\theta} \right) = 1 \left(\frac{1}{d\theta} \right) = 1 \cdot \int \cos^2(\theta) d\theta$ $= 1 \cdot \int \cos^2(\theta) d\theta = 1 \cdot \int \cos^2(\theta) d\theta$ $= 1 \cdot \int \cos^2(\theta) d\theta = 1 \cdot \int \cos^2(\theta) d\theta$ $= \frac{1}{4} \cdot (-\cot (\theta) + c) = -\cot (\theta) + c$ $x = 2 \cdot \text{ren}(\theta)$ sen $(\theta) = x$ $toy(\theta) = X - coty(\theta) + c = -\frac{1}{toy(\theta)} + c = -1 + c$ $\sqrt{4-x^2} \qquad A \qquad A \qquad A \qquad toy(\theta)$ = -1 $+ c = -\sqrt{4 - x^2} + c$ $4x - \sqrt{x^2}$ $x = 2 \cdot \text{pec}(\theta) \qquad 0 \le \theta \le \frac{7}{2} \quad \text{on} \quad \mathbb{T} \le \theta \le \frac{3\frac{7}{2}}{2}$ $dx = 2 \cdot \text{pec}(\theta) \text{ to give in the escalhides}$ $3\sqrt{x^2-4}$ dx = $\sqrt{4 \operatorname{nec}^2(\theta)} - 4 \cdot 2 \operatorname{nec}(\theta) \operatorname{to}_{q}(\theta) d\theta = \sqrt{4 \cdot \sqrt{(\operatorname{ne}^2 - 1)}} \cdot 2 \operatorname{to}_{q}(\theta) d\theta$ = $2 \int \sqrt{tg^2\theta} \cdot tg \theta d\theta = 2 \int tg \theta \cdot tg \theta d\theta = 2 \cdot \int tg^2 \theta d\theta$ = $2 \cdot \int see^2 \theta - 1 d\theta = 2 \left(\int see^2 \theta d\theta - \int 1 d\theta \right)$ $= 2 \cdot (toy \theta - \theta + c) = 2toy \theta - 2\theta + c = [\cdots]$

```
x = 2 \operatorname{nec}(\theta) = 2 \cdot 1 = 2 \cot \theta = 2 = \operatorname{adig} x

\cot \theta = 2 \cdot 1 = 2
                                                                                                                                                                                                                                                                  \theta = aricon \left(\frac{2}{x}\right)
                 toy \theta = exp = \sqrt{x^2 - 4}
adj 2
            [0.0] = 4\sqrt{x^2-4} - 2 \text{ armon } (2) + c = \sqrt{x^2-4} - 2 \text{ armon } (2) + c
5 \sqrt{x^2-1} de x=1 next 0 \le \theta \le \sqrt{2} on \pi \le \theta \le \sqrt{3} x^4 du = par \theta \cdot tag \theta Generalida
     = \[ \langle \text{pec}^2 \theta - 1 \cdot \text{pec} \text{. top } \text{d} \text{d} \text{d} \text{d} \text{d} \text{d} \text{d} \text{d} \text{d} \text{sect} \text{d} \tex
       = \int tq^2\theta d\theta = \int (2ex^2\theta - 1) d\theta = \int xex^2\theta d\theta - \int 1 d\theta
\int xex^3\theta = \int xex^3\theta d\theta = \int xex^3\theta
    = \begin{bmatrix} 1 & d\theta - \int 1 & d\theta = \int \cos \theta & d\theta - \int \cos^3 \theta & d\theta \\ e^{-3}\theta & e^
    = sen \theta - \int \cos^3 \theta d\theta = [...]
                                  \int \cos^3 \theta \ d\theta = \int \cos^2 \theta \cdot \cos \theta \ d\theta = \int (1 - n \cos^2 \theta) \cdot \cos \theta \ d\theta
                                = Scor O do - Spen2 O cor O do = sen O - Ju2 du
                                                                                                                                                                                                        Co u = pen 0 du = co2 0 do
                    = pen \theta - u^3 + c = pen \theta - pen^3 \theta + \epsilon
            [\cdots] = perst - (perst - perst) + (= perst) + (= perst)
                                                                                                                                                                                                                                                                                                                                                                    \times \sqrt{x^2-1} rem \theta = \theta p = \sqrt{x^2-1}
                                       X = sec O
                                    x = 1 \qquad con \theta = 1 = ad \qquad x \text{ fup}
```

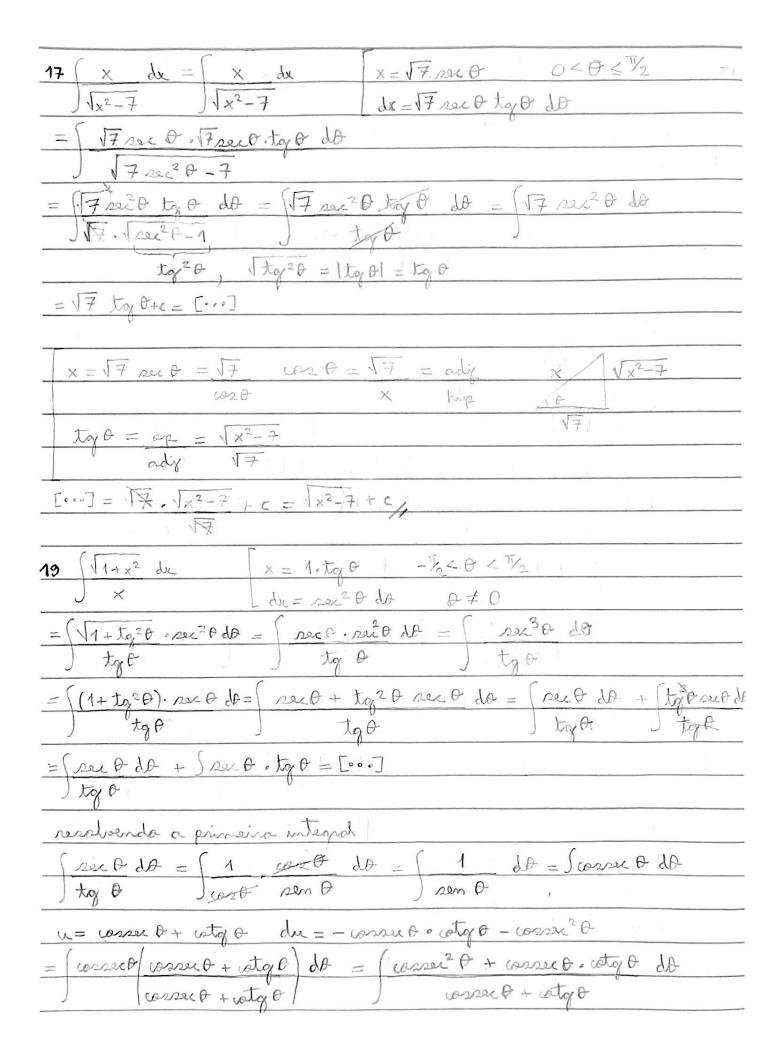
```
x=atge - 7/2 LOL 1/2 2 0 $ 0
de=aser20 do
\frac{1}{3} \int \frac{a \cdot nec^2 \theta \, d\theta}{\left(a^2 + a^2 t q^2 \theta\right)^{3/2}} = \int \frac{a \cdot nec^2 \theta \, d\theta}{\left(a^2 \cdot (1 + t q^2 \theta)\right)^{3/2}} = \int \frac{a \cdot nec^2 \theta \, d\theta}{\left(a^2 \cdot nec^2 \theta\right)^{3/2}}
= \int a \operatorname{rec}^2 \theta \, d\theta = \int a \cdot \operatorname{rec}^2 \theta \, d\theta \quad \text{, cama } a > 0 = \operatorname{rec} \theta > 0
\int a^6 \cdot \operatorname{rec}^6 \theta \quad \int |a|^3 \cdot |\operatorname{rec} \theta|^3
= \int a x e^2 \theta d\theta = \int d\theta d\theta como a é uma constante,
= 1 \left( 1 \right) d\theta = 1 \left( \cos^2 \theta \right) d\theta = 1 \left( 1 d\theta + 1 \right) \left( \cos^2 (2\theta) d\theta \right)
= \frac{1}{\alpha^2} \left( \cos^2 \theta \right) d\theta = \frac{1}{\alpha^2} \left( \frac{1}{2} d\theta + \frac{1}{2} \right) \left( \frac{1}{\alpha^2} d\theta \right) d\theta
 x = a \log \theta ty \theta = op = x for ading a
   sen \theta = ep = x \qquad cos \theta = ady = a \qquad \theta = antay(x)
hip \sqrt{a^2 + x^2} \qquad hip \sqrt{a^2 + x^2}
  = anty (\stackrel{\times}{a}) + (\stackrel{\times}{\sqrt{a^2+x^2}}) \cdot (\stackrel{\alpha}{\sqrt{a^2+x^2}}) = anty (\stackrel{\times}{a}) + \times \cdot a 1
 = \operatorname{out}_{q}\left(\frac{x}{a}\right) + x \cdot a \cdot \left| \frac{a}{a} \right|
= \operatorname{out}_{q}\left(\frac{x}{a}\right) + x \cdot a \cdot \left| \frac{a}{a} \right|
= \operatorname{out}_{q}\left(\frac{x}{a}\right) + x \cdot a \cdot \left| \frac{a}{a} \right|
= \operatorname{out}_{q}\left(\frac{x}{a}\right) + x \cdot a \cdot \left| \frac{a}{a} \right|
 => (antg(1) + a.a - (antg(0) + 0.2° 20².(0²)
   = anty(1) + 1
2a^2 + 4a^2
                                                                                           (?)
```

```
-\left(-\frac{1}{12}, (1-0)^{\frac{3}{2}}\right) = -0 + 1 = 1
         \left(-\frac{1}{12}, \left(1-\frac{1}{4}, \frac{1}{4}\right)^{3/2}\right)
                                 x = 3 \text{ sec } \theta
dx = 3 \text{ sec } \theta \text{ to } \theta \text{ d} \theta
\Rightarrow \sqrt{9} n n^2 \theta - 9 \cdot 3 n n \theta + 4 \theta \theta = \sqrt{9} \cdot \sqrt{4 n^2 \theta} \cdot 3 \log \theta d\theta
27 n n n^3 \theta
27 n n n^2 \theta
27 n n n^2 \theta
 = 1 (toy \theta · toy \theta d\theta = 1 (toy \theta d\theta = 1 (see \theta d\theta - 1 d\theta)

3 see \theta 3 see \theta 3 see \theta 3 see \theta 3
=\frac{1}{3}\left(\theta-\int \cos^2\theta \,d\theta\right)=\left[\cos\right]
 \int \cos^2 \theta \, d\theta = \int \frac{1}{2} \, d\theta + \int \frac{1}{2} \cos^2(u) \, du = \theta + \sin(2\theta) + c

\frac{[\circ \circ \circ] = 1 \ \theta - |\theta + | \text{pen} \ \theta \cos 2\theta|}{3} + c = 1 \ |\theta - \theta - \text{pen} \ \theta \cos 2\theta|}{3} + c = 1 \ |\theta - \theta - \text{pen} \ \theta \cos 2\theta|}

 = \theta - \text{sen} \theta \cos \theta = [000]
   x=3 sec \theta=3. 1 cos \theta=3
              \theta = \text{arrox}\left(\frac{3}{x}\right)
 [\circ\circ\circ]=\text{annoz}\left(\frac{3}{x}\right)-\left(\frac{\sqrt{x^2-9}}{x}\right)\cdot\left(\frac{3}{x}\right)=\text{annoz}\left(\frac{3}{x}\right)
  =\frac{1}{6} arus \frac{3}{x} - \sqrt{x^2 - 9} + c
```



```
= - [1 du = - ln |u| + c = - ln | correct + catogo |+ c
resolvendo a segunda integral
  secotyodo = seco+c
 resuttado em theta
 [···] = - ln | cosser + catg of + sex + c
   x = tay \theta = ap cosser \theta = 1 = \sqrt{1+x^2} ser \theta = \sqrt{1+x^2} and x
               \frac{1}{x} \frac{pen \theta = x}{\sqrt{1+x^2}} \frac{co2\theta = 1}{\sqrt{1+x^2}}
                       cotoy 0 = 1
  resultado em x
    11+x2-lm 11+x2+1+8
21 \int_{0}^{0.6} x^{2}   \int_{0}^{0.6} \sqrt{9-25x^{2}} = \sqrt{9-25x^{2}} = \sqrt{9-9} \cos^{2}\theta
                                   u = 5x u = 3 \text{ sen } 0 u^2 = 25 x^2
                               5x = 3 sen 0 x = \frac{3}{5} sen 0
       \frac{2}{25} sen \frac{2}{5} de \frac{2}{5} cos \frac{2}{5} de
                                   domínio de 0: - T/2 < 0 < T/2
     19-9 pen 20
 = ( 3/25 sen 0 . 3/5 cos 0 do
                                         (1-2000 = \( 10020 = \( 10020 \) = co20
    19. 11- sen20
= \left(\frac{27 \operatorname{sen}^2 \theta \operatorname{so} 20}{125 \cdot 3 \cdot \operatorname{so} 20}\right) d\theta = 9 \left(\operatorname{sen}^2 \theta \operatorname{d} 20\right)
 resolvendo a integral
 \int xem^2 \theta \ d\theta = \int \frac{1}{2} d\theta - \int \frac{1}{2} (2\theta) \ d\theta = \frac{1}{2} \theta - \frac{1}{2} xem(2\theta)
```

$=\theta-2nem\theta\cos\theta=\theta-nem\theta\cos\theta$
$\frac{1}{2} = \frac{\theta - 2nem \theta \cos \theta}{4} = \frac{\theta - nem \theta \cos \theta}{2}$
substituendo a integral resolvido
$=9 \cdot \left(\theta - \operatorname{sen}\theta \cdot \operatorname{so}_{2}\theta\right) = [\cdots]$ $125 \cdot \left(2\right)$
125 2 2
restando para x
$\frac{\int x = 3 \text{ pen } \theta = 5x = ap}{5}$ $\frac{3}{5}$ $\frac{5}{5}$
$\cos 2\theta = \operatorname{ady} = \sqrt{9-25x^2} \theta = \operatorname{arcsen} 5x \sqrt{9-25x^2}$ hip 3
$[-0.] = 9 \text{annen} \left(\frac{5x}{3}\right) - \frac{5x}{3} \cdot \sqrt{9-25x^2/3}$
125 2
= 9 (ansen (5x) - 5x o 1 9-25x2 1)
125 2 9 2
= 9 once $(\frac{5x}{3}) - 45x\sqrt{9-25x^2} = 9$ once $(\frac{5x}{3}) - x\sqrt{9-25x^2} + C$
250 2250 250 50
aplianda es limites de integração 10, ande 0.6 = 3/5
9. auxen (1) _ 3. 19-25. 25 9. auxento + 0. 19-02
250 5 250 50
$=9.72-3\sqrt{0}=91$
250 25 500/1
23 \(1 \text{ de } \text{x}^2 + 2\times + 5 = \text{x}^2 + 2\times + 1 + 4 = \left(\text{x} + 1 \right)^2 + 4
$\int \sqrt{x^2 + 2x + 5}$
$= \int 1 du \qquad \qquad \boxed{X+1 = 2 \log \theta} \qquad \boxed{\frac{1}{2}} \leq \theta \leq \boxed{\frac{1}{2}}$
$\int \sqrt{(x+1)^2+4} \qquad dx = 2 nex^2 \theta d\theta$
$= \int 2 n e^2 \theta \ d\theta = \int 2 n e^2 \theta \ d\theta = \int n e^2 \theta \ d\theta $
= ln nex + tg + tg + c = ln \((x+1)^2 + 4 + (x+1) + c
2

```
x+1 = sec 0 0 0 0 5 1/2
   \sqrt{x^2 + 2x} \, dx = \sqrt{x^2 + 2x + 1 - 1} \, dx
                                           de = ser o tgo de
 = SV(x+1)2-1 du
   Store -1 . seco to a de = Store seco topo de
 = Jseco. tg20 do = Sseco. (sec20-1) do = Ssec30 do - Sseco do
   Seco D. seco do, - la seco + Topo = [000]
   sec & . sec de
    f(x) = ser o
                        f'(x) = sec o . toy o
     g'(X) = per20
                         of (x) = top 0
= see 0. tog 0 - S see 0. tog 0 - tog 0 do
= reco. top - Sec O. top = do = sec O top 0 - 5 (sec 20-1) - sec O do
= ser & Top & - ( ser3 & do - S sec & do)
=> 2 | rev3 0 do = rev0 toy 0 + Sper 0 do - Sper 0 + Sper 0
=> ) ser30 = ser0 tox0 + lm (ser0 + tox0) + c
obstruces
 [000] = see 0 top 0 + Im [see 0 + Top 0] - Im [see 0 + top 0]
                                          \sqrt{(x+1)^2-1}
  2000 = X+1 =
= (x+1) \cdot \sqrt{x^2 + 2x} - \ln(x+1) + \sqrt{x^2 + 2x}
```

```
25 \int x^2 \sqrt{3+2x-x^2} dx, x^2-2x+1=(x-1)^2
                            \int_{x^{2}} \sqrt{-(x^{2}-2x-3)} du = \int_{x^{2}} \sqrt{-(x^{2}-2x+1-4)} du = \int_{x^{2}} \sqrt{-((x^{2}-2x+1-4))} du 
                                      x2 \ 4 - (x-1)2 du
                                   x-1=2 sent x=2 sent +1 -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}
                                     duc = 2 cos 0 do
                                 (4 sen 2 0 + 4 sen 0 + 1) . JA - 4 sen 2 0 de ) (4 sen 2 0 + 4 sen 0 + 1) . 2 11 - con 2 0 de
                             11-20020 = 10020 = 10020 = cos o no dominio do E
                             [4 pen2 0+ 4 pen 0+1]. 2 con 0 de 2000 0 de
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
= \frac{16 \int nem^2 \theta \cos^2 \theta \, d\theta + 16 \int nem \theta \cos^2 \theta \, d\theta + 4 \int \cos^2 \theta \, d\theta}{3}
                         = 0/2 + sen (20)/4
O \int nem \theta \cos^2 \theta d\theta = -\int u^2 du = -u^3 = -\cos^3 \theta
                   u= 102 0 du=- pon 0
@ [ sen= 0 cos 0 da = [ (1-ch2 0) cos 0 do = [ cos 0 do - [ cos 0 do = [...]
   => Sunt + de = S(ver2 +) 2 de = S(1/2+1/2·ver(2A)) 2 de = [1/4 de + 1/2 ver (2A) de
   + \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 1 \cdot \text{nem}(2\theta) + 1 \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + \text{nem}(2\theta) + \theta + \text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + \text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + \text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + \text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + \text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(4\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + \theta + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = \theta + 2\text{nem}(2\theta) + 2\text{nem}(2\theta)
+ \int_{\frac{\pi}{4}}^{4} \cos^{2}(2\theta) d\theta = 2\text{nem}(2\theta
\frac{[30] = 40 + 2m(20) - (30 + 2m(20) + 2m(40))}{8} = 0 - 2m(40)
  resultado
                20- sen (+0) - 16 coz 0 + 20 + sen (20)
      nottor para x ...
```