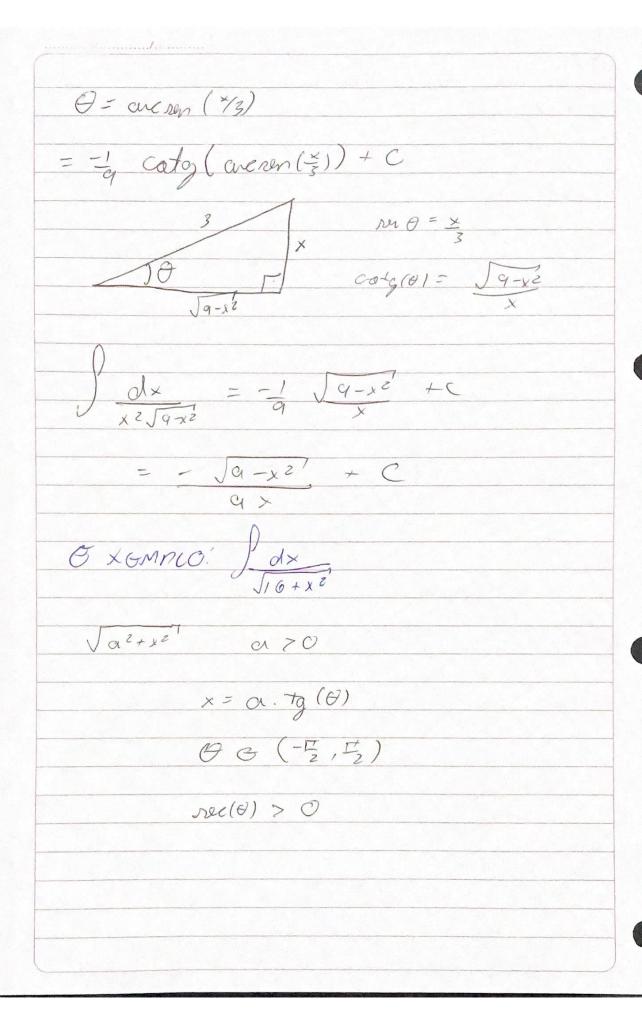
NOME FELIDE ANCHANTO DA CUMHA MENDES NA: 2252740 INTEGNAIS FON SUBSTITUICÃO TNIGONOMETNICA Vaz-xz , Joz+xz , Jxz-az ONDE 0170 EX VENIBUOI EXEMPOC! J dx. $\sqrt{\alpha^2-\chi^2}$, $0\sim n\varepsilon$ $\alpha=3$ X = 3 rend - 1/2 L& C 1/2 Vq-x2 = Jq-qren20 = 3 J1-ren20 = 3 Jco36 COMO O E (-E, E) TEMOS CO-0>0 Jeg - x2 = 3 cost x = 3 rent dx = 3 cool de $\int_{\lambda^2 \int_{\lambda^2}} dx = \int_{\lambda^2 \int_{\lambda^2}} \frac{1}{3 \cos \theta} \int_{\lambda^2$ = 1 de = 1 Pearecto do = -1 cato (0) + c



X=4 to (0) dx = 4 sec (0) do 516+x2 = 516+16 7g20 = SIG (1+1g20) = 4 Spec2(0) = 4 sec (-) 1 dx = 1 4 rec 8 = / recodo = lm 1 rect + tg 01 + C J16+22 /x +g 0-x roe(0) = 5/6+x2) dx = ln | \(\sqrt{6+xe} + \times \) + C = In | SiG+x2 + x | + C

= In/JI6+x2 +x/-In(4) +C COMO JIG+X21 1X >0 XX TOMORNO D=-ln(4) +C 1 dx = In (J16+x5'+x) + D Example: / 22-9' dx Jx2-9'= Jx2-32' X = 3 sec O dx= 3med tgo do 0 C 0 6 T/2 on 760 5 37/2 Tg & 20 Jx 2-9 = Ja sector -9 = 3 Josés)-1 = 3 / 1g = 3 / 1g(0) $\int_{X^2-4} dx = \int_{3+6}^{3+6} \frac{3 \times 60 + 3 \times 60 + 3 \times 60}{3 \times 60 \times 60} d\theta$ = 3 / tg ode = 3, (reco-1) de = 3 / nec 16 06 - 3/00

= 3 tg 0 - 30 + C rec 0 = X/3 Tg 0 = Jx2-4 $\int_{x^{2}-9} dx = 3 \int_{x^{2}-9} - 3 \operatorname{cnepen}(\frac{x}{3}) + C$ $= \int_{x^{2}-9} - 3 \operatorname{cnepen}(\frac{x}{3}) + C$