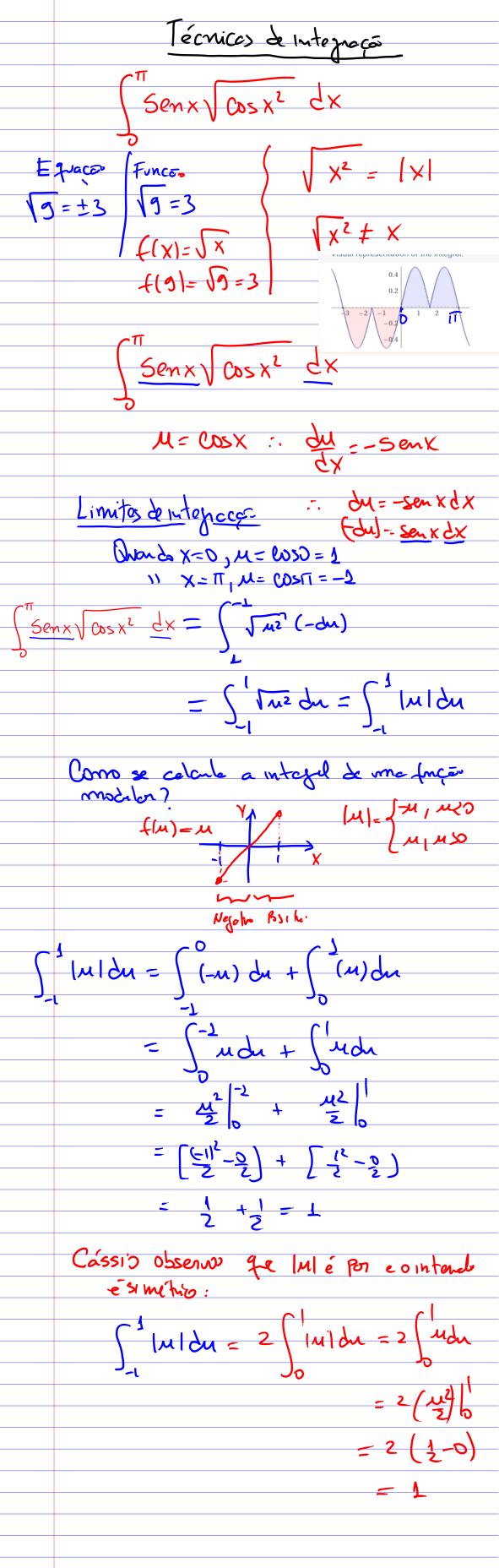
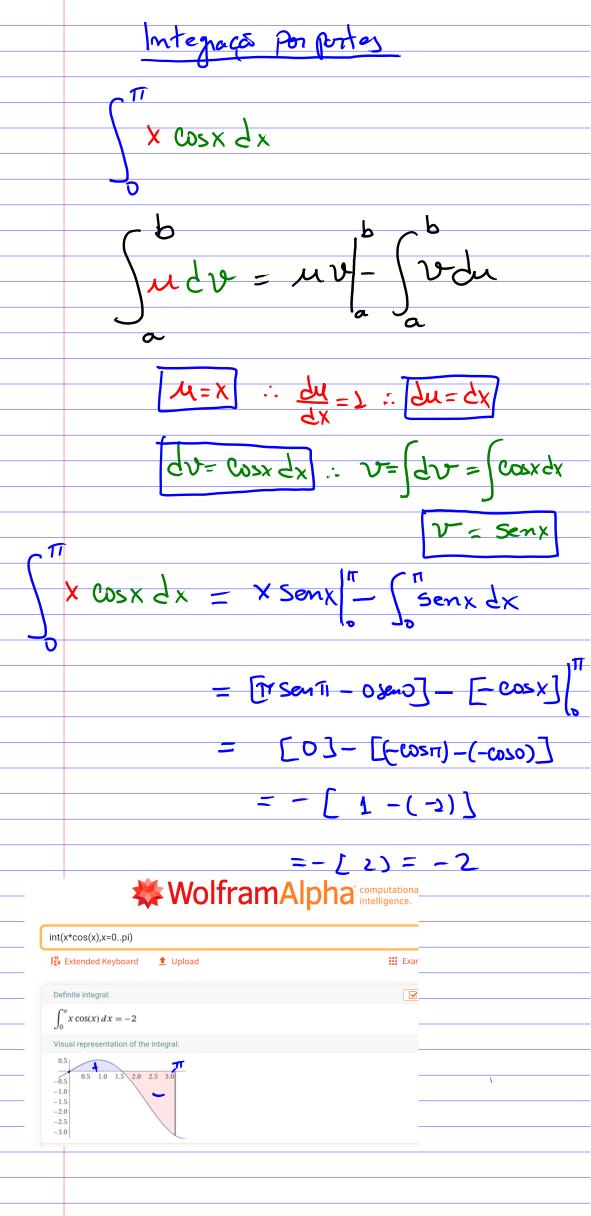
Simetria $\int_{-\alpha}^{\alpha} f(x) dx = \begin{cases} 0, & \text{se } f(x) = -f(-x) \\ \text{import} \end{cases}$ $= \begin{cases} 2 & \text{f(x)} dx, & \text{se } f(x) = f(-x) \\ \text{port} \end{cases}$ Cos(x) é por ou (mpor? C>>(x) € pr. -#-1 # +# X Cos(x)dy = 2 Cos(x)dx Sen Xdx = 0 $\int_{-2}^{2} \frac{1}{x^3} dx = 0 \text{ Pois } x^3 \in \text{ (mfor expire)}$ $\int_{S} x_{3} dx = 5$ x' < Pol. B -10 Port f(x)=-{(-x) (a) = - (1-0)





Uso de relações traprometros NATO Continuous of Subst. trypnomotories, $\int_{\mathcal{L}} \cos 2x \, dx =$ Eusei Ja $\int Cos x = \frac{1}{2} + cos(sx)$ Sey2 K = 1 - WS(2X) Decorem! va usor muito. $\int_{\mathcal{L}} \cos 2x \, dx = \left(\frac{5}{7} + \cos(5x)\right) \, dx$ $= \int_{\mathbb{R}} \frac{1}{2} dx + \int_{\mathbb{R}} \frac{2}{\cos(5x)} dx$ = \frac{1}{2} (\frac{\pi}{2} - 0) + \sum \frac{\sen(2x)}{4} Eu ly me paymad: 1 Quan en demo poro enonto Cos (SX)) " = Ty + [ser(#) - ser 0) D Definite integral: $\int_{0}^{\frac{\pi}{2}} \cos^{2}(x) dx = \frac{\pi}{4} \approx 0.78540$ Visual representation of the integral: 1.0 8.0 0.6 0.4 0.2 0.0 0.5 1.0 1.5

