(x) 1/2 = (-1) m (x) 2m m 1 \((m+3/2) \) $\frac{(-1)^{0}}{0!\Gamma(0+3/2)} \frac{(1)^{2.0} + (-1)!}{(1+3/2)!} \frac{(1+3/2)!}{(1+3/2)!}$ $1 - \frac{\chi^2}{3.2} + \frac{\chi^4}{5.4.3.2}$ $\chi - \frac{\chi^3}{3.2.1} + \frac{\chi^3}{5.4.3.2.1}$ 7 - 23 + 25 - --) Siny.

01. J. (x) = \2 (057 we boy n= -1 pul T. (1)= 5 mad 2 COS4 prove Narayani

80. J (x) = \2 (sinx - (0) x) Besser's function $2n \int n(x) = \chi \left(\int_{n-1}^{\infty} (x) + \int_{n+1}^{\infty} (x) \right)$ put n=1 $\frac{2.1}{2} \frac{J_1}{J_2} (x) = \frac{1}{2} \left[\frac{J_1 - y(x) + x J_3(x)}{2} (x) \right]$ $\frac{J_{1}(x)}{2} = \frac{1}{2} \frac{J_{-1}(x) + 1}{2} \frac{J_{3}(x)}{2}$ 2 Ty (2) = [Jy (1) - 7 J-1 (2)] Since Ti (x) > Jan Sing J-1 (2) = \ \frac{3}{7171} (w) $\frac{1}{2}(x) = \sqrt{\frac{3}{111}} \sin x - \frac{1}{2} \cos x$ = 13 (Siny - 7 (OS) $\frac{1}{2} \int \frac{1}{3} (x) = \sqrt{\frac{2}{n}} \int \frac{\sin x}{x} - \frac{\cos x}{x}$

Dale:.... Dage:

Sol".

$$-\int_{-1}^{-1}(x) = a \left[\int_{-2}^{-2}(x) + \int_{-2}^{-1}(x) \right]$$

$$\frac{\gamma}{2} \int -\frac{1}{2} (x) = -\left(\sqrt{\frac{2}{\pi x}} \cos x + \gamma \sqrt{\frac{2}{\pi x}} \sin x \right)$$

$$\frac{1}{3}\frac{1}{3}\frac{1}{3}\left(-\frac{1}{3}\frac{2}{11}\left(0\right)\chi-\chi\sqrt{\frac{2}{11}\chi}\frac{\sin\chi}{1}\right)$$

Naravani