hi 5060 $f(x) = \sin^2(x)$ P(n) = ZSin (2) Con (2) $\binom{N}{2} = 2 - 4 \sin^2 \alpha$ "(9) pull (x)= eated (5) (c). (-6

f(x) = (4) + f'(a) + $= \sum_{n=0}^{\infty} \int_{(a)}^{(n)} \frac{x^n}{n!}$ $\frac{\text{treve} \cdot n \cdot \text{even} \quad n \cdot \frac{1}{2}}{\sin^2(\alpha) = \sum_{n=1}^{\infty} 2(-4)^{n/2} - 1}$ 152 newn + 32 ×

me 2k t-1 x 2h vecommended for n= 2:2:10000 for les: 5000 $\frac{\sin^2(x)}{\sin^2(x)} = \frac{1}{2} - \frac{1}{2} \cos(2x)$ Created with Doceri

Asked area below $\gamma = \sin(q^2)$ for $0 \le x \le 1$ i.e. sin(x2)dx 厅 $Sin(x^{n}) = x^{n} - \frac{\pi}{3}$ - <u>3</u>i

<u>х п</u> 1 3 15 73 5 0.3103 ± 0.0008 Created with Doceri

limits : l'Hopital: (+00) = 1(0) la(0) (1) lim unless that vatio is le the capo of the denialors lim lim Created with Doceri

x2 - 7 W $l(m x^2 e^{\pi} = l(m)$ $x \rightarrow -\infty$ $\approx l(m) \frac{2\pi}{-x} -\infty$ =0 = S - lim 2 - > 2 Created with Doceri

lim (x - arianx) csc³x x-0 X - ansin (N) -> 0 lim sin⁹ X 12-00 >0 lin 35-90 VI-XL 3 sin 2x cosk lin Created with Doceri

