b). f(x) is even function bn = \f[]-1 f(x)sin \frac{nt}{t} x dx + \int_0 f(x)sin \frac{m}{t} x dx] = \frac{1}{h}[] \frac{1}{h}(-1)sin \frac{mt}{t}(-1) (-1) + \int_0 f(x)sin \frac{mt}{t} x dx] = = [[] fundx+ [of fu) dx] = [- Sofundx xx = I Suffer on the dx

bn=f[[-]f(x)sm_xxdx+f0f(x)sinnxxdx]=f[[0f(-ysinnx(-y)-dy)+f0f(x)smxxdx] On= \[[\frac{1}{2}f(x)cos\frac{n\pi}{2}xdx+\frac{1}{2}f(x)cos\frac{n\pi}{2}xdx]=\frac{1}{2}[\frac{1}{2}f(-\frac{1}{2})cos\frac{n\pi}{2}(-\frac{1}{2})(-d\frac{1}{2})+\frac{1}{2}f(x)-cos\frac{n\pi}{2}x.dx]. = 大らよいらいか大メウェダ

+ f(x, y) = h(x) g(y) g(y) = 0g. + = (0g, cos 1/2 x + bg, sin 1/2 x) Ohn = \frac{1}{2} \int_{1} h \times \cos \frac{n\pi}{2} \times dx

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\text{Ohn = \frac{1}{2} \int_{1} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \text{Od} \times \text{Od} \times \text{Od} \times \text{Od} \times \text{Od} \text{V} \text{V} \text{Od} \text{V} \text{Od} \text{V} \text{Od} \text{V} \text{V} \text{V} \text{Od} \text{V} \text