```
Last Wave Problem 5.2.2 #3
Ford Soln: M (x,t) = E snihax (bin contat + bz n smi NAt)
  4 (x,0) = 2 sui 3 x x =>
              25.311 X = 8 pin sinax
 match up n=3 bis=2 all other bin's are
M+ (xx) = = sintx (-411 bin sint + n11 bin count)
M_{+}(x,0)=2 => 2= \sum_{n=0}^{\infty} n\pi b_{2n} \sin n\pi x
  = 7 \quad N\pi \int_{2\eta} = \frac{\int_{0}^{1} z \sin^{2} \theta \pi x dx}{\int_{0}^{1} \sin^{2} \theta \pi x dx} = 2 \int_{0}^{1} z \sin^{2} \theta \pi x dx
            = -\frac{4}{4\pi} \cos n\pi x = \frac{4}{n\pi} \left(1 - \cos n\pi\right)
         on 5 = 4 (1-con ut )
  Assemble
M(x,t) = a \sin 3\pi x \cos 3\pi t + \sum_{u=1}^{\infty} \frac{4}{u^2\pi^2} \left(1 - \cos u\pi\right) \sin u\pi x \sin n\pi t
```

## Laplace i a Rectangle

