```
T =

     4


w =

    1.5708


a0 =

1/4


an =

-(4*sin(pi*n)^2 - n*pi*(2*sin(2*pi*n) + 2*sin((pi*n)/2)))/(2*n^2*pi^2)


bn =

(2*sin(2*pi*n) - n*(2*pi*cos(2*pi*n) + 2*pi*cos((pi*n)/2)))/(2*n^2*pi^2)


Fourier_series =

(sin((pi*n*t)/2)*(2*sin(2*pi*n) - n*(2*pi*cos(2*pi*n) + 2*pi*cos((pi*n)/2))))/ ↙
(2*n^2*pi^2) - (cos((pi*n*t)/2)*(4*sin(pi*n)^2 - n*pi*(2*sin(2*pi*n) + 2*sin((pi*n) ↙
/2))))/(2*n^2*pi^2) + 1/4

>>
```