

```
N = 15;
n = 1:2:2 * N;
dt = 0.01;
t = (-2:dt:2)';
T = 1;
```

```
bn = 2 ./ (n * pi)
```

```
bn = 1x15
    0.6366    0.2122    0.1273    0.0909    0.0707    0.0579    0.0490    0.0424 ...
```

```
wn = 2 * n * pi / T
```

```
wn = 1x15
    6.2832   18.8496   31.4159   43.9823   56.5487   69.1150   81.6814   94.2478 ...
```

```
y = sum(bn .* sin(wn .* t), 2)
```

```
y = 401x1
    0.0000
    0.4935
    0.5725
    0.4615
    0.4824
    0.5337
    0.4934
    0.4790
    0.5169
    0.5070
    ⋮
```

```
plot(t, y)
```

