```
N = 15;
n = 0:N;
A = 1;
dt = 0.01;
t = (-2:dt:2)';
T = 1;
```

```
an = -(4 * (-1).^n * abs(A)) ./ (pi * (4 * n.^2 - 1))
```

```
an = 1×16
    1.2732    0.4244   -0.0849    0.0364   -0.0202    0.0129   -0.0089    0.0065 ···
```

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

```
wn = 1×16
         0    6.2832   12.5664   18.8496   25.1327   31.4159   37.6991   43.9823 ···
```

```
y = an(1) / 2 + sum(an(2:end) .* cos(wn(2:end) .* t), 2)
```

```
y = 401×1
    1.0007
    0.9999
    0.9978
    0.9949
    0.9916
    0.9878
    0.9829
    0.9765
    0.9686
    0.9597
      :
      :
```

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