[fseries] = fourier_series(5, 2*pi);

```
The Fourier Series is :
```

```
fplot(fseries, [0 6*pi])
hold on;
f = @(x) 1.*(0 <= x & x < pi) + x.*( pi <= x & x <= 2*pi)</pre>
```

```
f = function_handle with value:
@(x)1.*(0<=x&x<pi)+x.*(pi<=x&x<=2*pi)
```

```
x = linspace(0, 2*pi, 100);
y = f(x);
ry = repmat(y, 1, 3);
rx = linspace(0, 6*pi, length(ry))
```

```
rx = 1×300
0 0.0630 0.1261 0.1891 0.2522 0.3152 0.3783 0.4413 · · ·
```

```
plot(rx, ry);
grid on;
hold off;
```

