```
f1 := x \rightarrow -x
                                                                                   (1)
                                                                                   (2)
f2 := x \rightarrow 2 x
                                                                                   (3)
6
                                5
                                4
                                3
                                2
                                1
            -\frac{3\pi}{4}
                                        \frac{\pi}{4}
                                                    \frac{3\,\pi}{4}
                                              \frac{\pi}{2}
N := 5;
```

N := 5

(4)

>
$$a0 := evalf\left(\frac{1}{Pi} \cdot \left(\int_{-Pi}^{0} fI(x) dx + \int_{0}^{Pi} f2(x) dx\right)\right);$$

 $a0 := 4.712388981$ (5)

end do:

$$n := 'n';$$

$$n := n \tag{6}$$

$$\int f := a0 + \sum_{n=1}^{N} (a[n] \cdot \cos(n \cdot x) + b[n] \cdot \sin(n \cdot x)) :$$

> plot(f, x = -Pi ..Pi);



