

```
> B:=k->(400/Pi)/(2*k+1);
```

$$B := k \rightarrow \frac{400}{\pi (2k+1)}$$

(1)

```
> g:=(x,n)->sum(B(k)*sin((2*k+1)*x),'k'=0..n);
```

$$g := (x, n) \rightarrow \sum_{k'=0}^n B(k) \sin((2k+1)x)$$

(2)

```
> g(x,1);
```

$$\frac{400 \sin(x)}{\pi} + \frac{400}{3} \frac{\sin(3x)}{\pi}$$

(3)

```
> plot(g(x,1),x=-Pi..Pi);
```

