

Untitled (1)\* - [Server 1] - Maple 11

File Edit View Insert Format Table Drawing Plot Spreadsheet Tools Window Help

Maple Input

Math Drawing Plot Animation

12 B I U E

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

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

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

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

> g(x,1);

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

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

Ready

Memory: 37.05M Time: 4.64s Test Mode