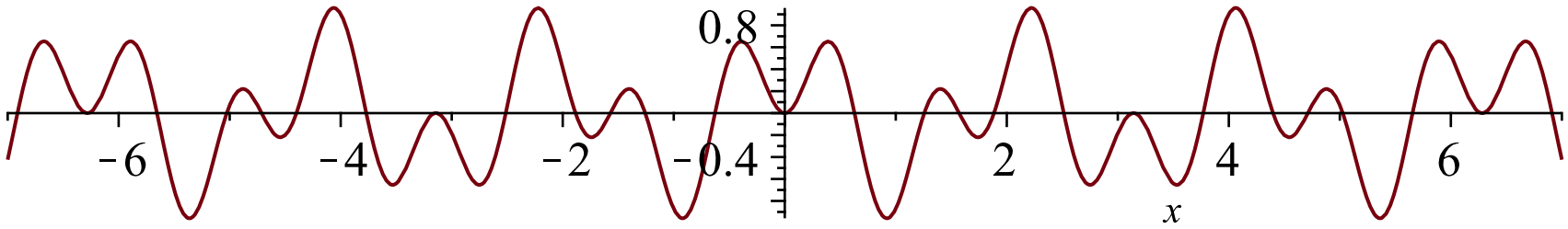
```
> y1:=cos(7*x); y2:=cos(3*x);
```

$$y1 := \cos(7\,x)$$
$$y2 := \cos(3\,x) \qquad (1$$

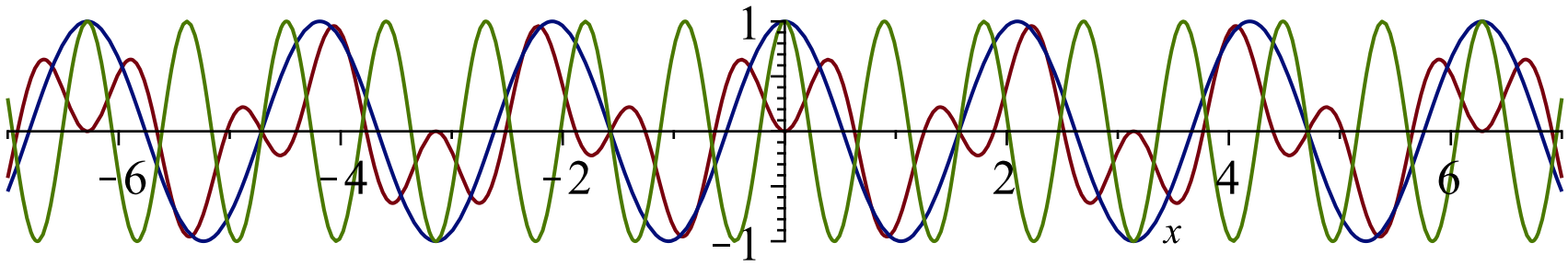
```
> y:=sin(5*x)*sin(2*x);
```

$$y := \sin(5\,x)\,\sin(2\,x) \qquad (2$$

```
> plot(y,x=-7..7);
```



```
> plot({y1,y2,(y2-y1)/2},x=-7..7);
```

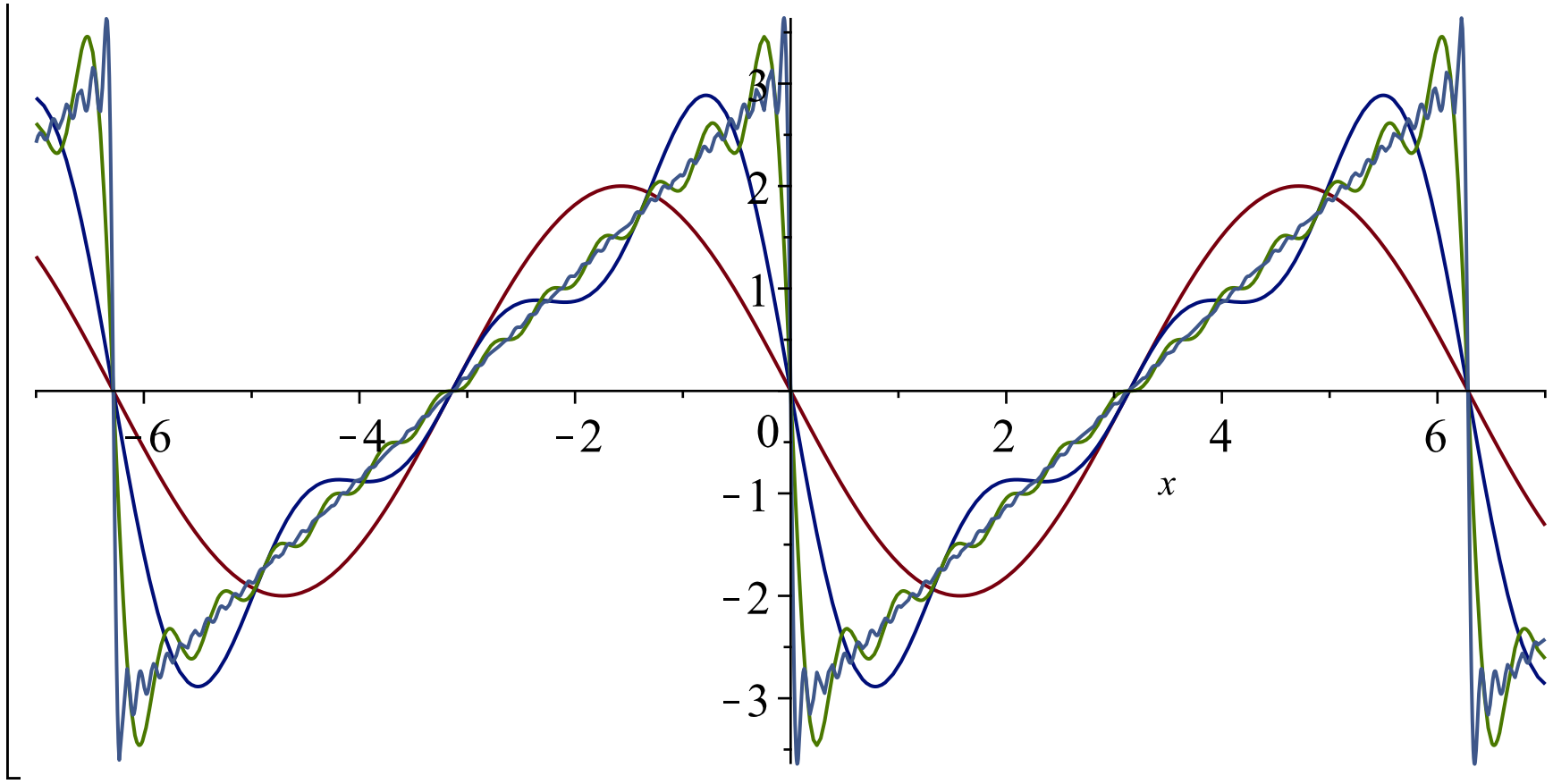



```
> f:=n->-2*Sum(sin(k*x)/k,k=1..n);
```

$$f := n \mapsto -2 \left(\sum_{k=1}^{n} \frac{\sin(k\,x)}{k} \right)$$

(3

```
> plot({f(1),f(3),f(12),f(50)},x=-7..7);
```


3
2
1
-6
-4
-2
0
2
4
6
x
-1
-2
-3