

September 15, 2015

You can use these in Wolfram Alpha or Wolfram Alpha Pro  
to help solve problem 4.1 in UQP by Morrison

```
plot sum j=1 to 6 (cos((2*pi*x)/(1.4 + j*0.1)))  
int [sum j=1 to 6 (cos((2*pi*x)/(1.4 +j*0.1)))]^2 dx from x=-10 to 10  
int [sum j=1 to 6 (x*cos((2*pi*x)/(1.4 +j*0.1)))]^2 dx from x=-10 to 10
```