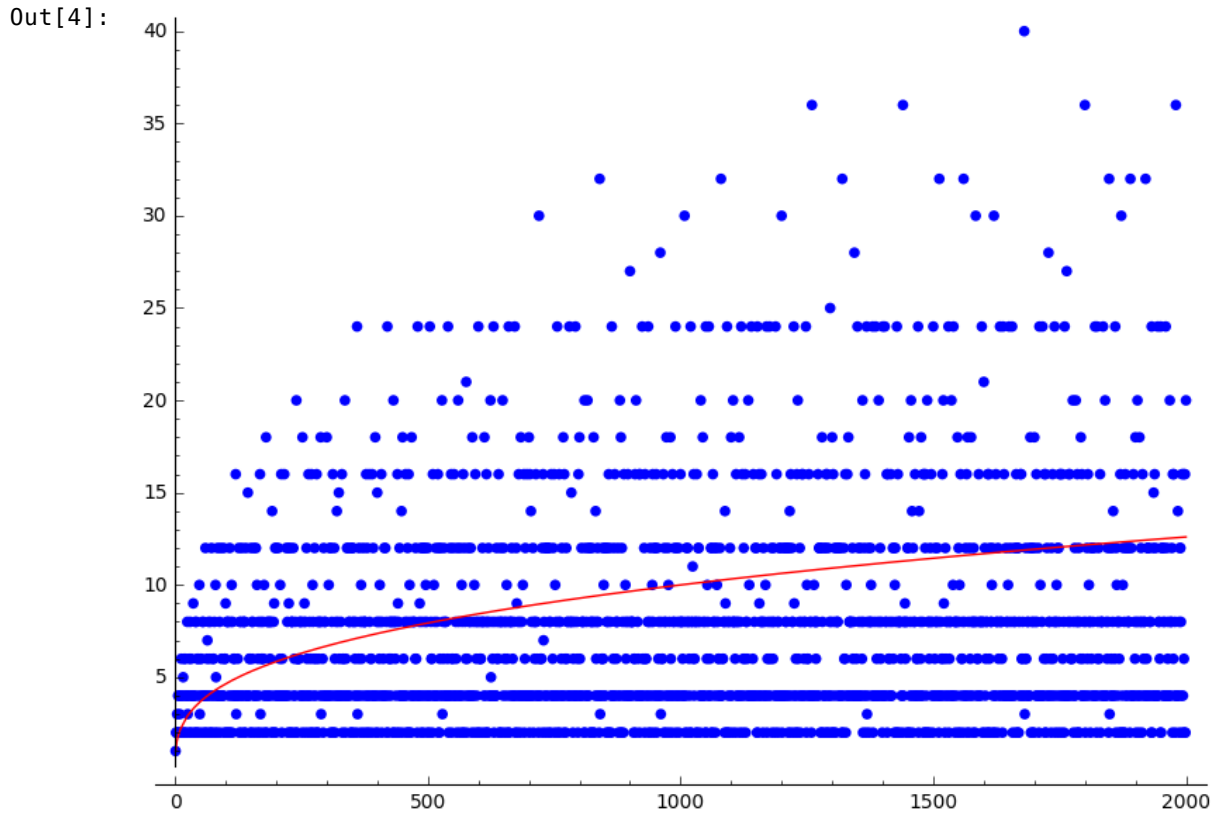
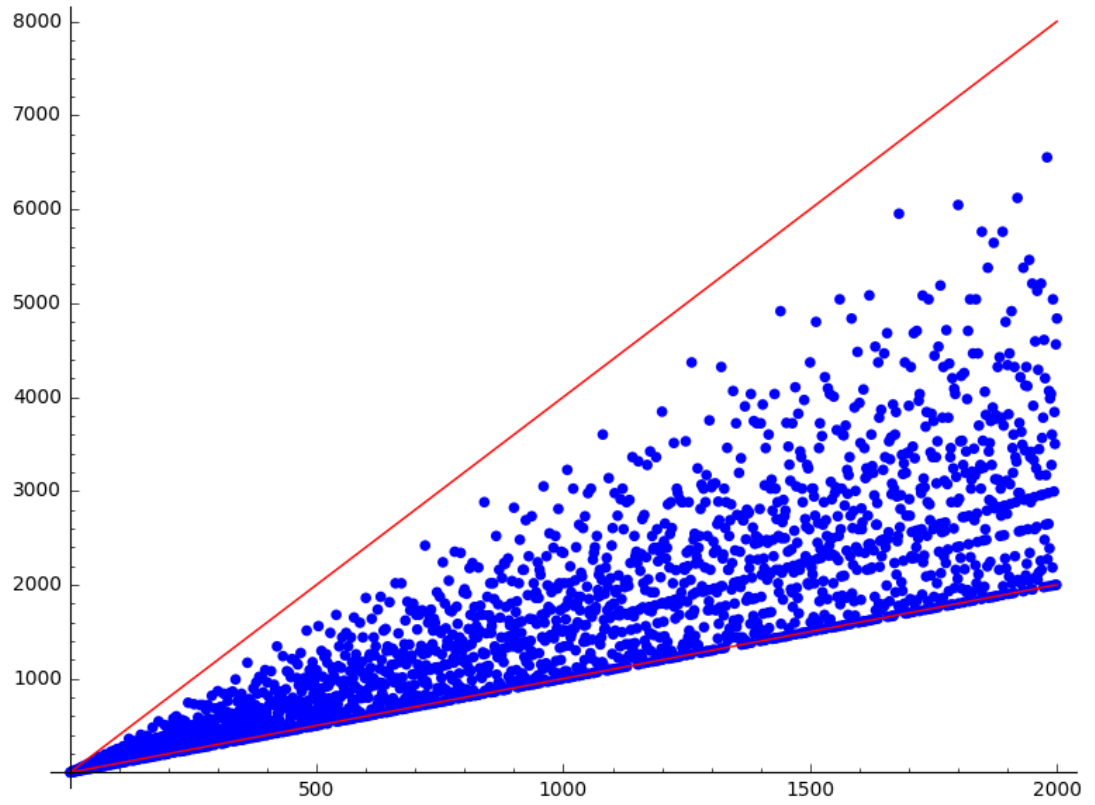


```
In [4]: N=2000
plot0=plot(sigma,1,N,k=0,join=False)
plot1=plot(sigma,1,N,k=1,join=False)
plot2=plot(sigma,1,N,k=2,join=False)
upper_bound0=plot(x^(1/3),x,1,N,color='red')
lower_bound1=plot(x+1,x,1,N,color='red')
upper_bound1=plot(4*x,x,1,N,color='red')
plot0+upper_bound0
```



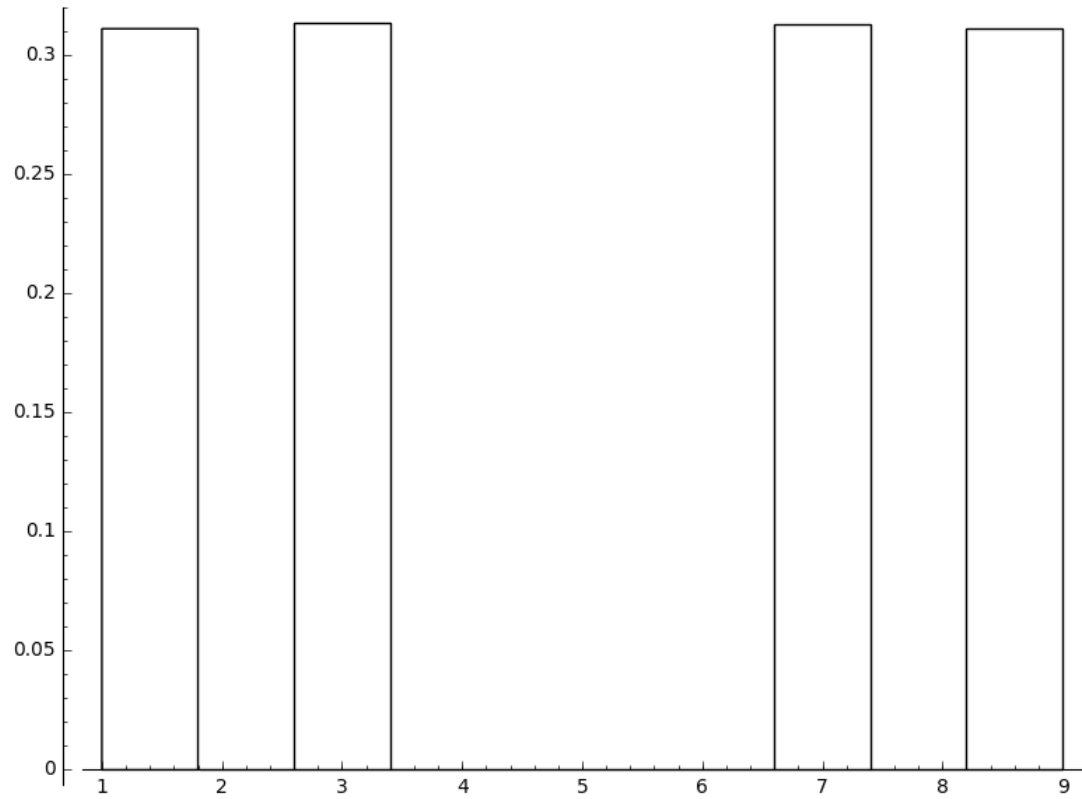
```
In [5]: plot1+lower_bound1+upper_bound1
```

```
Out[5]:
```



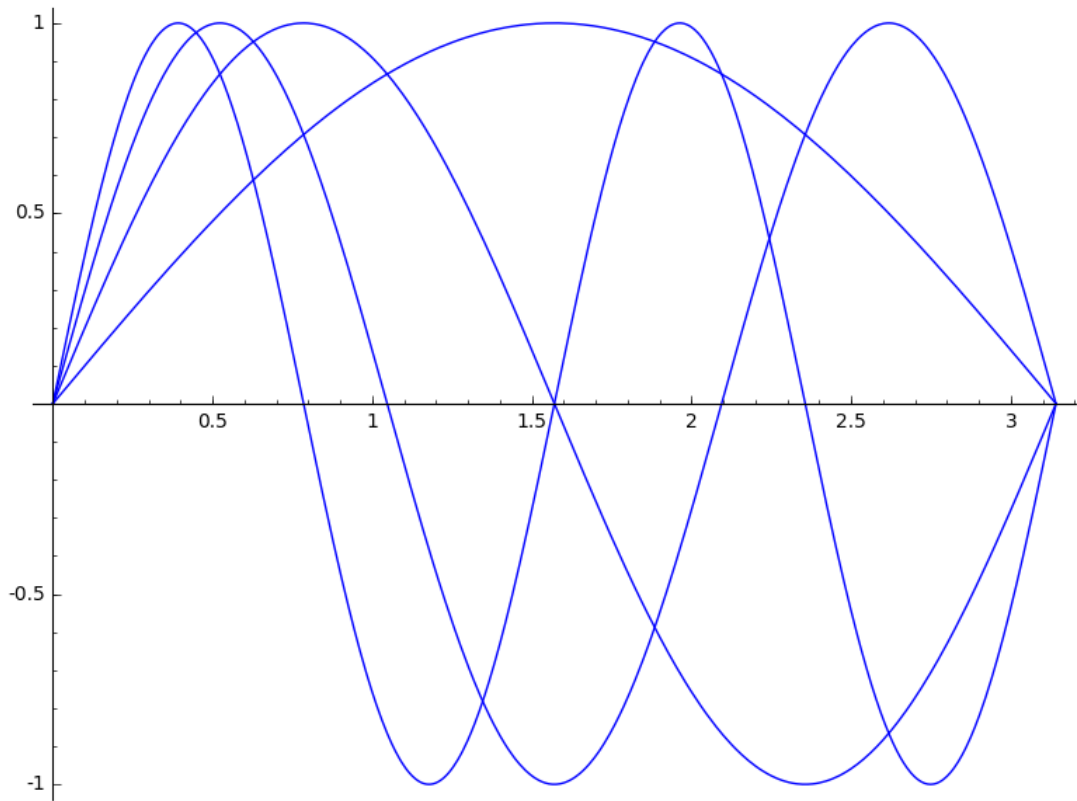
```
In [2]: X=[n%10 for n in range(200000) if is_prime(n)]  
plot1 = histogram(X, normed=True, weights=None, cumulative=False, fill=False)  
plot1
```

Out[2]:



```
In [3]: x = var('x')  
plot([sin(n*x) for n in [1..4]], (0, pi))
```

Out[3]:



In []: