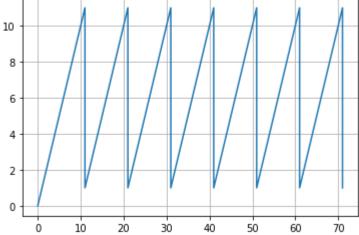
1

```
from random import expovariate
In [19]:
          from math import inf as infint
          from matplotlib import pyplot
          A1=[]
          A2=[]
          AOI=[]
          AOImax=[]
          AOImin=[]
          L=[]
          B=[]
          At=[]
          As=[]
          TR=[0]
          g=[0,10,20,30,40,50,60,70]
          r=[2,11,21,31,41,51,61,71]
          for i in range (len(r)):
              AOI.append(r[i]-g[i-1])
              AOI.append(r[i]-g[i])
          for i in range (len(r)):
              TR.append(r[i])
              TR.append(r[i])
          AOI[0]=0
          AOI.insert(1,r[0])
          for i in range(len(AOI)-1):
              if (i % 2) == 0:
                     AOImin.append(AOI[i])
              else:
                       AOImax.append(AOI[i])
          for i in range(len(AOImax)):
              L.append(AOImax[i]-AOImin[i])
          r.insert(0,0)
          for i in range(len(r)-1):
              B.append(r[i+1]-r[i])
          for i in range(len(B)):
              A1.append(B[i]*L[i])
              At = sum(A1)/2
              A2.append(B[i]*AOImin[i])
              As = sum(A2)
              Average AOI=round((As+At)/r[-1],2)
          print("Average AoI=",Average AOI)
          print("AoImax =",AOImax)
          print("AoImin =",AOImin)
          print("At =",At)
          print("As =",As)
          print(TR)
          print(AOI)
          print(L)
```

```
print(B)

pyplot.plot(TR,AOI)
pyplot.grid()
```



In [ ]: