In [1]:
```
from random import expovariate
from math import inf as infint
from matplotlib import pyplot
AOI=[]

G=round(expovariate(1/2),1)
A=round(expovariate(1/4),1)

GR=[G]
AR=[A+G]
TR=[0]
for i in range (5):

    GR.append((round((GR[i]+expovariate(1/8)),1)))
    AR.append((round(AR[i]+expovariate(1/16),1)))

for i in range (len(GR)):
    AOI.append(AR[i]-GR[i-1])
    AOI.append(AR[i]-GR[i])

for i in range (len(GR)):
    TR.append(AR[i])
    TR.append(AR[i])

AOI[0]=0
AOI.insert(1,AR[0])

print(GR)
print(AR)
print(AOI)
print(TR)
print(len(AOI))
print(len(TR))
pyplot.plot(TR,AOI)
pyplot.grid()
```

```
[2.9, 17.1, 19.0, 29.4, 39.1, 44.3]
[2.9, 11.5, 27.5, 48.0, 56.4, 65.3]
[0, 2.9, 0.0, 8.6, -5.600000000000001, 10.399999999999999, 8.5, 29.0, 18.6, 27.0, 17.299
999999999997, 26.199999999999996, 21.0]
[0, 2.9, 2.9, 11.5, 11.5, 27.5, 27.5, 48.0, 48.0, 56.4, 56.4, 65.3, 65.3]
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```

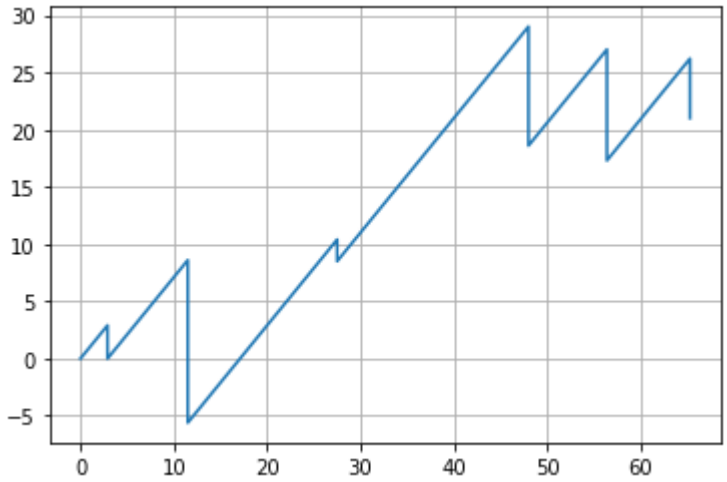

In [ ]: