**Solution**

1. ***C(k)=****0.12****k+****20*
2. Complete the table below.

|  |  |
| --- | --- |
| ***k (kilowatt-hour)*** | ***C(k) (dollars)*** |
| *0* | *20.00* |
| *15* | *21.80* |
| *35* | *24.20* |
| *47* | *25.64* |
| *89* | *30.68* |
| *125* | *35.00* |
| *260* | *51.20* |

1. Sketch a graph of ***C*** for ***0≤k≤280.***



***Cost (dollars)***

 ***K (kilowatt-hour)***

1. Domain: The domain is 0≤k≤280. In other words all the inputs of the function.

Range: The range is 20≤C≤53.60. In other words all the outputs of the function.

1. ***C*** is a function of ***k*** because for every kilowatt-hour there is only one cost.