## Report

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## **Energy & Power of Part C:**

```
Energy of Z(t) = Infinity
Power of Z(t) = 0.12045601603624816
```

## **Comment on Part E:**

When we multiplied m(t) \* cos (30 pi t) in Time Domain, the result in frequency domain is the Convolution of the two signals.

then we conclude that: Multiplication in Time Domain is Convolution in Frequency Domain.

I wrote the Project in Python and provided Source code of parts in separate files & run main to get:

Figures are separated in each" Part X.PDF" file.