$$|X(t)| = \sum_{k=-\infty}^{\infty} |X_k| e^{-\frac{k^2}{4}} |X_k| = \sum_{k=-\infty}^{\infty} |X_k|$$

This will be used in code:

$$\frac{K}{X(4)} = \sum_{k=-1k}^{K} X_k e^{j\frac{2\pi kt}{T}} = \sum_{k=+1}^{K} X_k e^{j\frac{2\pi kt}{T}} + \sum_{k=1}^{+1} X_{-k} e^{-j\frac{2\pi kt}{T}} = X_{-k}$$

Part 7:

Real Part:

Max Voic: LOD73

Min Value: -0.0728

Imaginary Pert

max Volue: 5.5511x10-16

Min Volue -5.5511 x10-16

* When they are compared, maximum value of real part is much greater than maximum value of imaginary part. And, minimum value of real part is much smaller than imaginary part. In fact, imaginary part can be ignored when it is compared to real part.

If I try sh $(\frac{1}{6})$ - 0.5 in MATLAR, I get sin $(\frac{1}{6})$ - 0.5 = -5.5511 × 10-11

Since method calculates the (1816) approximately, small error is governed.

Second Port (Du Port):

As K gets larger, approximation of \$14) becomes better. Plot becomes more sharp rather than being smooth. This is because of the number of signals. In ideal case, when letter, we acquire x(t) so adj we increase k, \$2(t) gets closer to ideal x(t) so \$2(t) streets also increase.

Jes, I observe oscillations and introgularities in the neighborhoods of discontinuities. This is because of the Fourier series expansion. The veloc of discontinuities are coverage of its the side so oscillations arise at these pints.

I corresponding Plats for this But one Given Below !