Table of Contents


```
v = 4096;
tau = 1;
t = linspace(0,tau, v);

f = exp(t);
g = t;

fFour = ifft(f);
gFour = ifft(g);
```

Part A

equal to tau * a0

```
partA = tau * fFour(1);
```

Part B

equal to summation of abs value of every ak

```
partB = sum(abs(fFour) .^ 2);
```

Part C

equal to summation of ak * bk_conjugte

```
gFourConj = conj(gFour);
partC = sum(fFour .* gFourConj);
```

Solutions

```
fprintf("a) %f + %fi\n", real(partA), imag(partA));
fprintf("b) %f + %fi\n", real(partB), imag(partB));
fprintf("c) %f + %fi\n", real(partC), imag(partC));
```

```
a) 1.718316 + 0.000000i
b) 3.194772 + 0.000000i
c) 1.000088 + -0.000000i
```

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