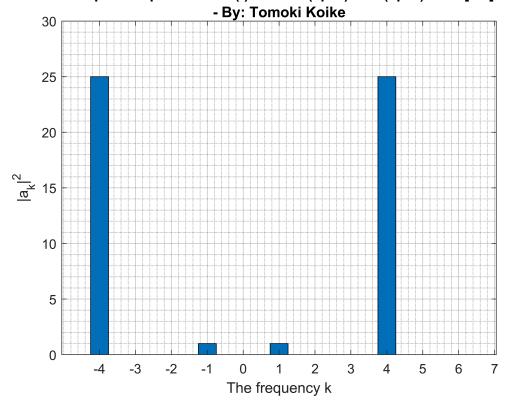
2.2.1

PROBLEM 5.

<PART 2>

Plot the power spectrum

The power spectrum of $f(t) = 10\cos(8pi^*t)-2\sin(2pi^*t)$ over [0 1]



<PART 3>

```
% Calculating the root mean square
t = linspace(0, 1, 2^17);
f = 10*cos(8*pi.*t) - 2*sin(2*pi.*t);
rootMeanSqr = rms(f);
disp(rootMeanSqr);
```