2.2.1

PROBLEM 10.

<PART 2>

Plottimg the power spectrum for

$$f(t) = 4\cos(100t)\cos(2t)$$

```
a = [1, 0, 0, 0, 1, zeros([1, 195]), 1, 0, 0, 0, 1];
figure(1)
bar((-102:102), abs(a(1:205).^2), 0.5)
ylim([0 1.5])
grid on
grid minor
box on
xlabel('The frequency k'); ylabel('|a_k|^2')
title({['The power spectrum of f(t) = 4cos(100t)cos(2t) over ' ...
    '[0 2*pi]'],'- By: Tomoki Koike'})
```


The power spectrum of f(t) = 4cos(100t)cos(2t) over [0 2*pi]
- By: Tomoki Koike