# Answers to lecture problems – lectures 16…18

## Lecture 16

### Slide 1

Deduce what you can about Fourier coefficients for following function:



Average over one period is ½ so  and function even so .

Compare with true values.

Above “guesses” are correct, the coefficients of the cosine terms are:



## Lecture 17

### Slide 1

Show that the Fourier Transform of the function is 



## Lecture 18

### Slide 1

Calculate the Fourier transform of the function given by 

