### EE 150L

### Signals and Systems Lab

##### Lab4 Fourier Transform

Date Performed:

Class Id:

##### Name and Student ID:

1. The Fourier transform has many properties, pick two of the following five to verify.
2. The symmetry property, that is:

If , then

1. The scaling property, that is:

If , then

1. The time shifting property, that is:

If , then

1. The frequency shifting property, that is:

If , then

1. The convolution property, that is:

If , then

说明：任取两个性质进行证明。

1. The following signals can be obtained by convolution or linear combination of two basic signals, which we mentioned in Lab1. Try to find out the basic signals and draw them.

