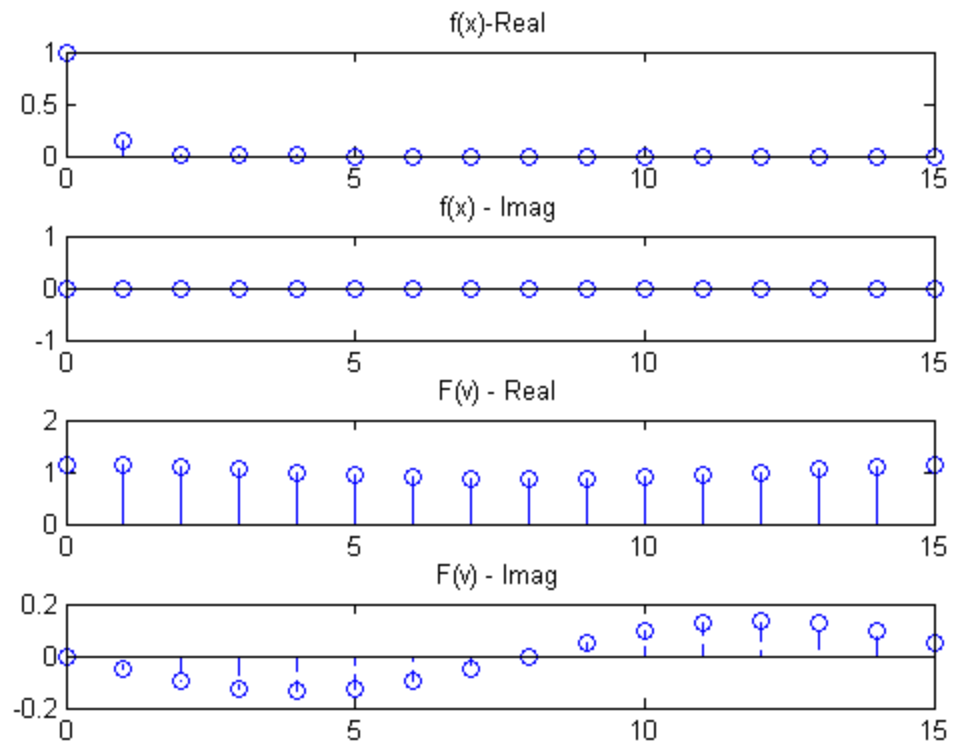

```
% Pratap Luitel
% Engs 92
% HW - 4, Problem 1b
```

```
N = 16;          % length of signal vector
n = 0:(N-1);     % vector index
```

```
f = exp(-2*n.^2);
F = fft(f);
```

```
% plotting the result
subplot(4,1,1), stem (n, real(f), '-');
title('f(x)-Real')
subplot(4,1,2), stem (n, imag(f), '--');
title('f(x) - Imag')
subplot(4,1,3), stem (n, real(F), '-');
title('F(v) - Real')
subplot(4,1,4), stem (n, imag(F), '--');
title('F(v) - Imag')
```



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