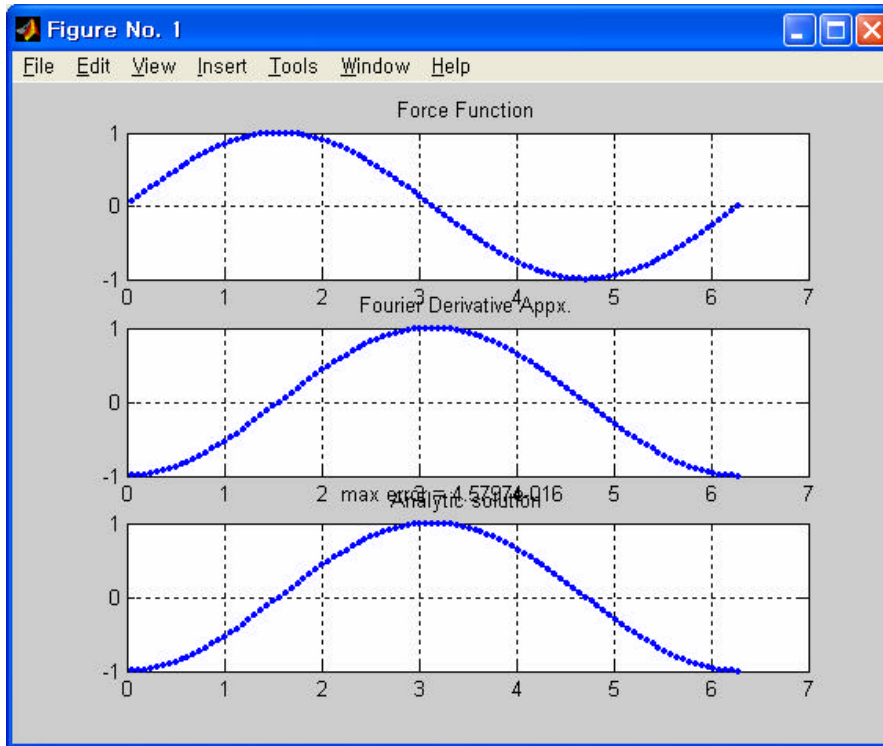


## Result of Fourier Method for 1,2th order differential equations.

- $du/dx = f$

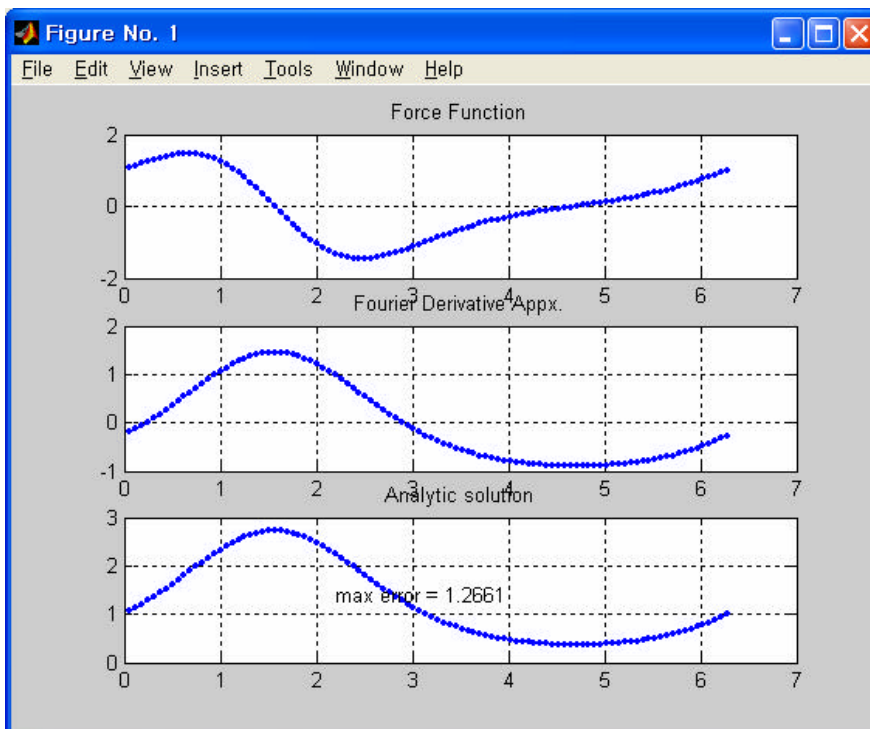
```
1 f = sin(x); u = - cos(x);
```

error = 4.5797e-016



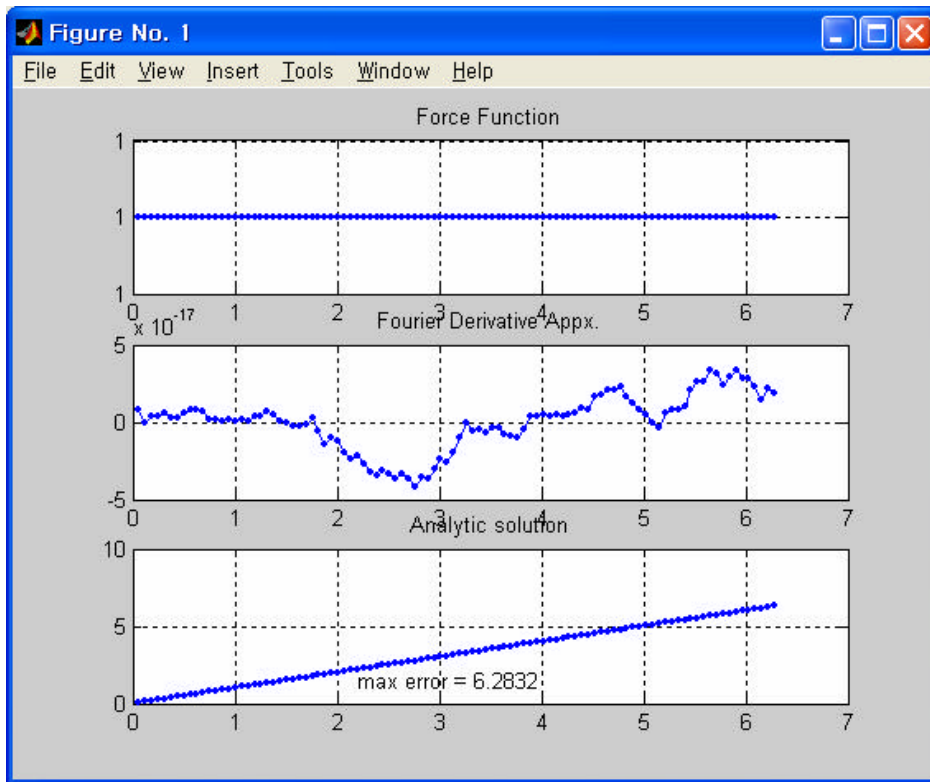
```
2 f = cos(x) .* exp(sin(x)); u = exp(sin(x));
```

error = 1.2661



# Non-Periodic Functions

```
3 f = 1./x .* exp(log(x));    u = exp(log(x));    error = 6.2832
```



```
4 f = log(x) + 1; u = x .* log(x);    error = 10.0595
```

