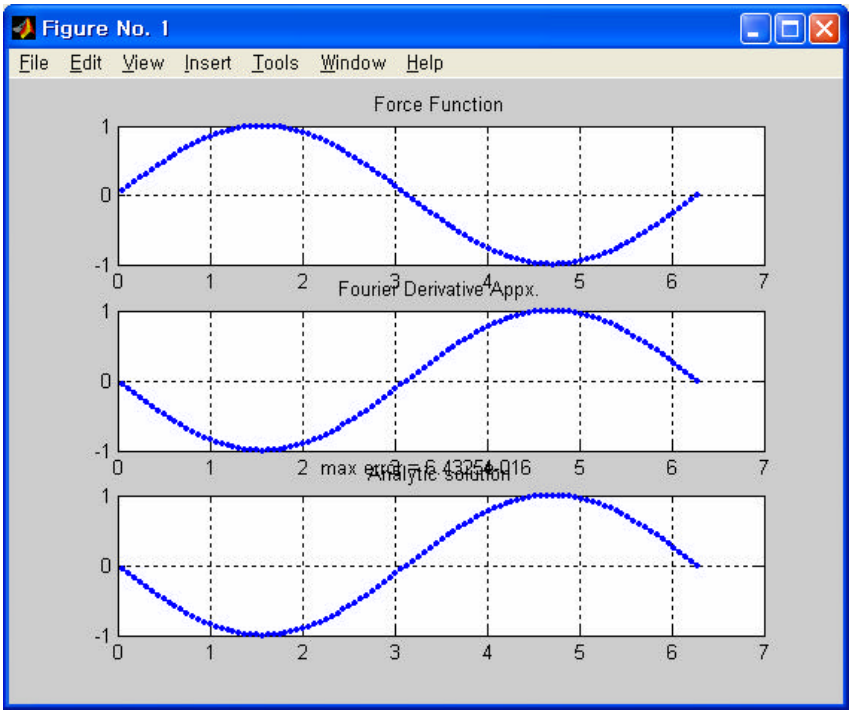
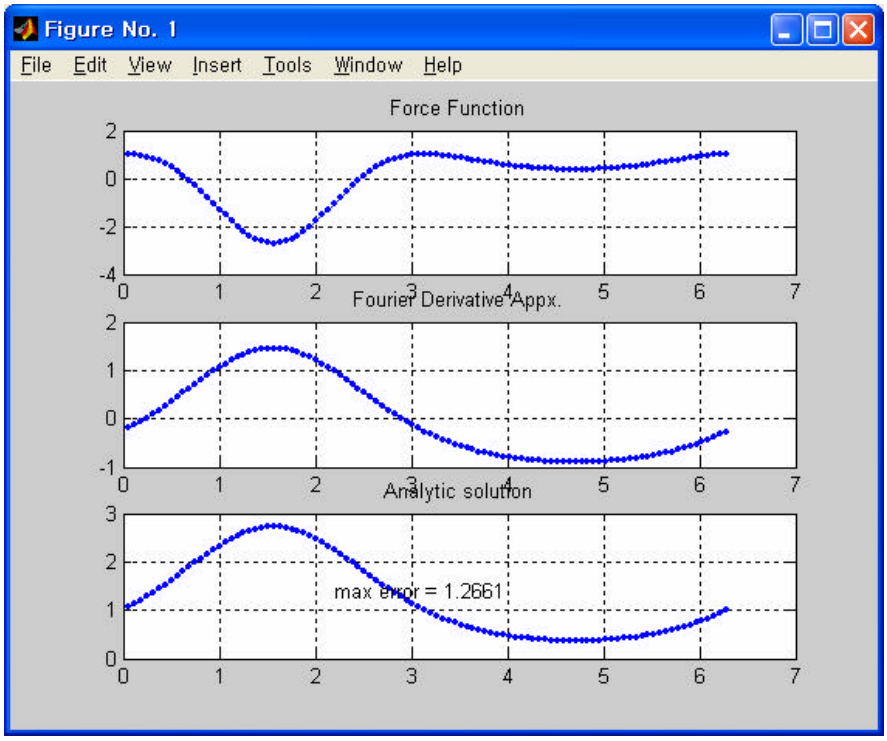
Result of Fourier Method for 1,2th order differential equations.

- **d^2u/dx^2 = f**

```
1  f = sin(x);   u = - sin(x);                    error =  6.4325e-016
```

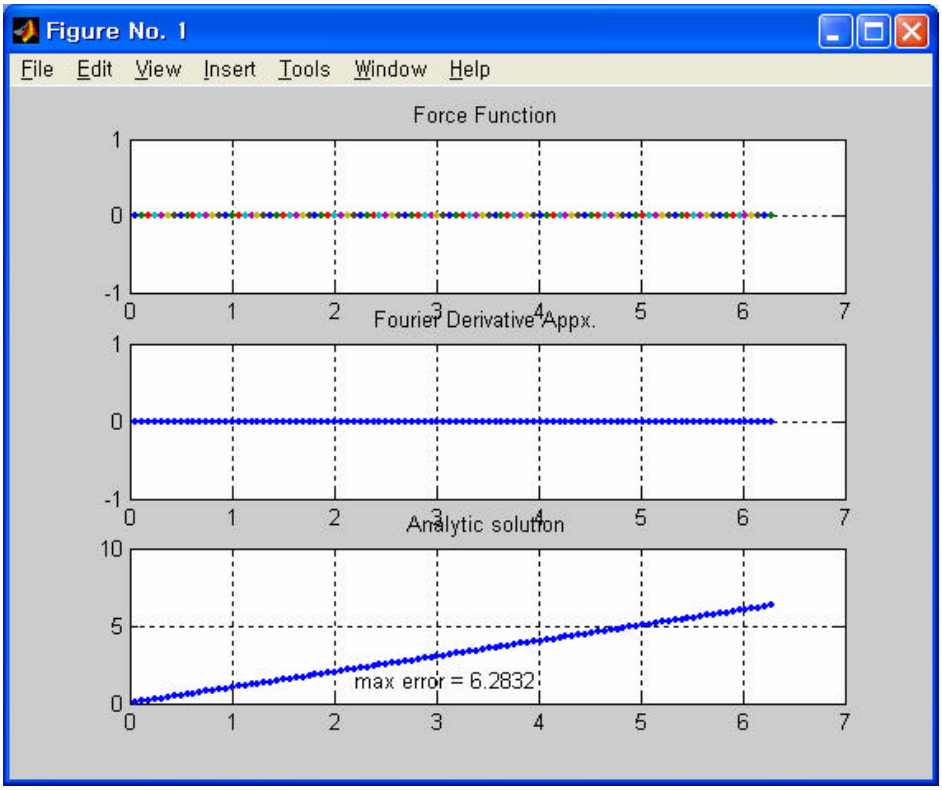



```
2  f = (1 - sin(x) - sin(x) .* sin(x)) .* exp(sin(x));  u = exp(sin(x));
 error =  1.2661
```



Non-Periodic Functions

3 f = 0;   u = exp(log(x)); error = 6.2832



4 f = log(x) + 1; u = x .* log(x); error = 12.7094