## Fourier Analysis

## Assignment 7

20181105

Name :	
Student ID :	

- 1. Evaluate the Laplace transform of the given function using appropriate theorems and examples from this section.
  - (a) f(t) = 2t + 3
  - (b)  $f(t) = t\sin 4t$
  - (c)  $f(t) = e^{2t} \sin 3t$
- 2. Evaluate the inverse Laplace transform of the given function.
  - (a)  $F(s) = \frac{1}{s^2}$
  - (b)  $F(s) = \frac{4}{3s^2+1}$
  - (c)  $F(s) = \frac{s}{s^2 + 2s + 1}$

Reading Materials: Section 8.1 of the textbook.