Name:			
Section:			

R·I·T School of Mathematical Sciences

Homework 7

MATH 211

- 1. Find the Laplace Transforms using the table and simplify your answers as much as possible.
 - (a) $g(t) = t \sin 2t 2t^4$

1a. _____

(b) g(t) = 3tu(t-3)

1b.

(c) $h(t) = \cos t \cdot u (t - \pi)$

1c.

(d) $m(t) = e^{-2t}u(t-1)$

d. _____

2. Find the inverse Laplace Transforms of the following functions.

(a)
$$M(s) = \frac{s}{s^2 + 5s + 6}$$

2a.			
7.A.			

(b)
$$G(s) = \frac{se^{-3s}}{s^2 + 4}$$

(c)
$$F(s) = \frac{s}{(s+1)(s^2+6s+10)}$$

(d)
$$H(s) = \frac{e^{-2s}}{s^3 + 5s^2 + 4s}$$