Name: _____

Section: _____

R·I·T School of Mathematical Sciences

27 - Shifting Formulas II

MATH 211

Find the Laplace Transforms of the following functions.

1. $g(t) = -7t^3 u(t-4)$

2. $h(t) = 2e^{-5t} u(t-6)$

3. $m(t) = \sin(6t)u(t - \pi/18)$

Find the Inverse Laplace Transforms of the following functions.

1. $G(s) = \dfrac{(3s+19)e^{-4s}}{s+5}$

2. $P(s) = \dfrac{(s+5)e^{-3s}}{s^2 + 4s + 13}$

3. $H(s) = \dfrac{e^{-2s}}{s^2(s^2+4)}$