King Fahd Univ. of Petroleum and Minerals
Faculty of Sciences
Department of Mathematical Sciences

QUIZ No. 2
(MATH. 301-062 Section 1)

Name:
ID:

Prob. 1
Find \( L^{-1} \left\{ \frac{2s-4}{(s^2+4)(s^2+1)} \right\} \)

Prob. 2
Solve

\[
\begin{align*}
y'' - 4y' + 4y &= t^3 e^{2t} \\
y(0) &= 0 \\
y'(0) &= 0
\end{align*}
\]