MA 2051 B 2013 — Quiz 4

Name:

Section (circle): 9 a.m. (Nathan)   10 a.m. (Ruofan)   11 a.m. (Alex)   noon (Tuan)
noon (Hector)   1:00 p.m. (Pi)   3 p.m. (Jesus)

Instructions: Work neatly. Show your work. Do your work on this paper. Use the back if needed. **Justify your answers.**

1. (5 pts) Use the definition of Laplace transform to find $\mathcal{L}\left\{9e^{-4t}\right\}$. Indicate the values of s for which the transform exists.

2. (5 pts) Find the function $f(t)$ whose Laplace transform is $\dfrac{4}{s(s+4)}$. Indicate clearly which transform table entries you use.