

## Retake 8

MAT 265, SPRING 2017

NAME:

1. (20 points) Recall that the Laplace transform of a function is

$$\mathcal{L}\{f(t)\} = \int_0^{\infty} e^{-st} f(t) dt.$$

Use the definition to find the transform of  $f(t) = t^2 + e^{-t}$ .