

Name: _____ Sort #: _____

Worksheet 13: Definition of the Laplace Transform

MATH 2310, Spring 2019

Grade: _____ / 40

Find the Laplace Transform of each of the following functions. Use only the definition and show all the details of your integration process. Results using a table of transforms will receive no credit.

1. (20 pts) $f(t) = t^2$

2. (20 pts) $f(t) = \cos(at)$, where a is a real constant.