

Name: _____ Sort #: _____

Worksheet 17: Convolution Integrals

MATH 2310, Spring 2019

Grade: _____ / 40

Use the convolution integral to find the inverse Laplace transform of the following. Evaluate the integral if possible.

1. (10 pts) $F(s) = \frac{1}{s(s-3)}$

2. (10 pts) $F(s) = \frac{s}{(s-3)(s^2+1)}$

3. (10 pts) $F(s) = \frac{G(s)}{s^2 + 1}$

4. (10 pts) $F(s) = \frac{1}{(s^2 + 9)^2}$