

Quiz 9

MAT 265, SPRING 2017

NAME:

1. (10 points) Find the Laplace transform of the function

$$f(t) = \begin{cases} \cos \pi t & \text{if } 0 \leq t < 2, \\ 0 & \text{if } t \geq 2. \end{cases}$$

2. (10 points) Find the inverse Laplace transform of

$$F(s) = \frac{e^{-s} - e^{-3s}}{s^2}.$$