

Name : _____

242 - Differential Equations: Test 4 Extra Credit

DIRECTIONS: Show all work! There is a total of 5 points which will be added to Test 4.

1. (5 points) Find the Laplace transform for the following discontinuous function:

$$g(t) = \begin{cases} 0 & \text{if } t < \pi \\ \sin(t) & \text{if } \pi < t \end{cases}$$