

Name:  
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MAP 2302.4787  
Cyr

Quiz 5

You must show all work to receive full credit!!

**Problem 1.** (2 points) Find the inverse Laplace transform of the function

$$F(s) = \frac{2s + 16}{s^2 + 4s + 13}.$$

**Problem 2.** (3 points) Use Laplace transforms to solve the initial value problem

$$y'' - y' - 2y = 0, \quad y(0) = -2, \quad y'(0) = 5.$$