Name: _____

Directions: Show all work. No credit for answers without work. This quiz has 12 points but will be graded out of 10.

1. [3 points] Find the general solution to $y'' + 5y' = e^{4x}$.

2. [3 points] Find a particular solution to $y'' - y = e^x + 7$.

3. [2 points] State the definition of the Laplace transform of f(t).

4. [2 points] Find the Laplace transform of $7t - 3e^{2t}$.

5. [2 points] Find the inverse Laplace transform of $\frac{3}{s-6}$.