Name:			
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- Directions: Show all work. No credit for answers without work.
- Solution to part (a) purchased (Max. score = 8):
- 1. The Laplace Transform.
 - (a) [5 points] Find the Laplace transform X(s) of the solution x(t) to the following IVP.

$$x'' + 8x' + 15x = 1; x(0) = 2, x'(0) = -3$$

Express X(s) as a ratio $\frac{F(s)}{G(s)}$ for sme functions F(s) and G(s).

(b) [5 points] Find the inverse Laplace transform of X(s). Note: you may purchase X(s). If you purchase X(s), then your quiz will be graded as usual, except that your maximum score will be capped at 8 points out of 10.