Name:	
ranic.	

The majority of the credit you receive will be based on the completeness and the clarity of your responses. Please use equal signs where appropriate and write solutions with a logical flow. Show your work, and avoid saying things that are untrue, ambiguous, or nonsensical.

- 1. Solve the following nonhomogeneous equations using the method of undetermined coefficients:
 - (a) $y'' 6y' + 9y = 5t^2e^{3t}$
 - (b) $y'' y' 12y = 2te^{-3t}$
 - (c) $y'' + 2y' + 2y = 8e^{-t}\sin(t)$