Name:

ID #:

Serial #:

1. Solve the DE $2xyy' = 5x^2 + 3y^2$.

- 2. (a) Find by inspection a particular solution of the DE 4y" + 2y' + y = 8.
 (b) Verify that y = 2x² 8x is a particular solution of the DE 4y" + 2y' + y = 2x².
 (c) Find a particular solution of 4y" + 2y' + y = x² 8.