Name: _____ Score: ____

1. Solve the differential equations. (3 points each)

(a)
$$y'' - y = \sin x$$

(b) $y'' - 3y' = e^{3x} - 12$

2. Solve the initial value problem $y'' - 2y' + y = 2e^x$, y(0) = 1, y'(0) = 0. (4 points)