MTH 3311 - Test #3 - Version #3

Spring 2017

Pat Rossi Name _____

Show CLEARLY how you arrive at your answers.

1. Find the general solution of the equation:
   $y'' + 3y' + 2y = 10e^{3x}$

2. Find the general solution of the equation:
$y'' - 2y' + y = -2\cos(3x) - 36\sin(3x)$

3. Find the general solution of the equation:

$y'' - 12y' + 36y = e^{6x} \ln(x)$ (Assume that $x > 0$)