HOMEWORK 12-PARTC

If you cannot integrate some functions, just leave it as integrating form.

1. Find general solutions to $y" + 2y' + 1 = te^t$.

2. Find general solutions to $y" - y = tant$.

3.(1)Verify that $y_1(t) = \frac{1}{t}$ and $y_2(t) = \frac{1}{t}Int$ are solutions to the homogeneous equation $t^2y" + 3ty' + y = 0$;
(2) Use variation of parameters to find general solutions to $t^2y"+3ty'+y = \frac{1}{t}$.