Solve the following differential equations.

1. $y'' - 6y' + 10y = 0$
2. $y'' - 4y' + 5y = 0$
3. $y'' - 8y' + 20y = 0$
4. $y'' + 9y = 0$
5. $y''' + 3y'' + 3y' + y = 0$
6. $y''' + y'' + 4y' + 4y = 0$
7. $y''' + y = 0$
8. $y^{(4)} - 3y''' = 0$
9. $y^{(4)} + 8y'' + 16y = 0$
10. $y'' + y' + y = 0$