

Generating Functions – Steps for solving recurrence equation .

The following are the steps for solving recurrence equation:

- 1 → Write the recurrence equation first.***
- 2 → Convert the recurrence equation into a generating function.***
- 3 → Solve the generating function in terms of partial fractions.***
- 4 → Derive the closed form of $G(z)$.***
- 5 → Expand $G(z)$ and the coefficient of z^n in the closed form is the solution of the recurrence equation.***
