

```

Table[2^n - 2 n + 3, {n, 0, 10}]
{4, 3, 3, 5, 11, 25, 55, 117, 243, 497, 1007}

{4, 3, 3, 5, 11, 25, 55, 117, 243, 497, 1007} // FindSequenceFunction
1/2 (10 + 2^(n+1) - 4 n) &

{1, 0, 0, 0, 0, 0, 0} // FindSequenceFunction
FindSequenceFunction[{1, 0, 0, 0, 0, 0, 0}]

FindSequenceFunction[{4, 3, 3, 5, 11, 25, 55, 117, 243, 497, 1007}, n + 1] // Simplify
3 + 2^n - 2 n

Sum[1/n! FindSequenceFunction[{4, 3, 3, 5, 11, 25, 55, 117, 243, 497, 1007}, n + 1] t^n,
{n, 0, ∞}]
e^t (3 + e^t - 2 t)

```