Practice with Recurrence Relations

Solve the following recurrence relations using the iteration technique:

1) $T(n) = T(n - 1) + 2, \quad T(1) = 1$

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2) $T(n) = 2T(n/2) + n, \quad T(1) = 1$

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3) $T(n) = 2T\left(\frac{n}{2}\right) + 1, T(1) = 1$

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4) $T(n) = T(n - 1) + n, T(1) = 1$

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