Homework

Closed form Solution for Recurrence Relations

Solve the following recurrence relations.

- 1. $b_0 = 1$, $b_1 = 2$, $b_n = 7b_{n-1} 10b_{n-2}$, $\forall n \ge 2$.
- 2. $y_0 = 2, y_1 = 3, y_k = 3y_{k-1} 2y_{k-2}, \forall k \ge 2.$
- 3. $t_0 = 0, t_1 = 3, t_k = 6t_{k-1} 9t_{k-2}, \ \forall \ k \ge 2.$