

الف) $4, 7, 11, 14$

ب) $\frac{11}{9}, 1, \frac{5}{4}, \frac{3}{5}$

الف) $t_{13} = \frac{(-1)^{13}}{\sqrt{13 \cdot 3}} = \frac{-1}{\sqrt{39}} = -\frac{1}{\sqrt{39}}$

ب) $t_{13} = 2(13) - \left\{ \frac{13}{2} \right\} = 26 - 3 = 23$

الف) $2n - 1 \leq 0$

$2n \leq 1$

$n \leq 0$

$\frac{1, 2, 3, 4}{\text{مجموعه}}$

ب) $(n-10)(n-5) \leq 0$

$10 \leq n$

$\frac{10}{+} \frac{5}{-} \frac{+}{+}$

$\frac{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}{\text{مجموعه}}$

الف) $2n - 14 \leq 0$

$2n \leq 14$

$n \leq 7$

$\frac{1, 2, 3, 4, 5, 6, 7}{\text{مجموعه}}$

ب) $(n-3)(n-9) \leq 0$

$3 \leq n$

$\frac{3}{+} \frac{9}{-} \frac{+}{+}$

$\frac{3, 4, 5, 6, 7, 8, 9}{\text{مجموعه}}$

$t_7 = 7 = 4a + b$

$t_9 = 22 = 9a + b$

$t_n = 3n - 5$

$\begin{cases} -4a + b = -7 \\ 9a + b = 22 \end{cases}$

$2a = 14$

$a = 7$

$b = -2$

الف) $t_1 = 1 - 4 + 2 = -1$

$t_2 = 4 - 9 + 2 = -3$

$t_3 = 9 - 16 + 2 = -5$ $\rightarrow$ $t_n = -n^2 + 2n$

$t_4 = 16 - 24 + 2 = -6$ است $(-n)$

$t_5 = 25 - 30 + 2 = -3$

$t_6 = 36 - 36 + 2 = 2$

لذا t_6 به بدست می آید

ب) $t_1 = 1 + 4 + 2 = 7$

$t_2 = 4 + 9 + 2 = 15$

$t_3 = 9 + 16 + 2 = 25$

لذا t_3 به دست می آید

$t_n = -1, -3, -5, -7, -9, -11, -13, -15, -17, -19, -21, -23, -25, -27, -29, -31, -33, -35, -37, -39, -41, -43, -45, -47, -49, -51, -53, -55, -57, -59, -61, -63, -65, -67, -69, -71, -73, -75, -77, -79, -81, -83, -85, -87, -89, -91, -93, -95, -97, -99, -101, -103, -105, -107, -109, -111, -113, -115, -117, -119, -121, -123, -125, -127, -129, -131, -133, -135, -137, -139, -141, -143, -145, -147, -149, -151, -153, -155, -157, -159, -161, -163, -165, -167, -169, -171, -173, -175, -177, -179, -181, -183, -185, -187, -189, -191, -193, -195, -197, -199, -201, -203, -205, -207, -209, -211, -213, -215, -217, -219, -221, -223, -225, -227, -229, -231, -233, -235, -237, -239, -241, -243, -245, -247, -249, -251, -253, -255, -257, -259, -261, -263, -265, -267, -269, -271, -273, -275, -277, -279, -281, -283, -285, -287, -289, -291, -293, -295, -297, -299, -301, -303, -305, -307, -309, -311, -313, -315, -317, -319, -321, -323, -325, -327, -329, -331, -333, -335, -337, -339, -341, -343, -345, -347, 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