

$$11 \rightarrow 1 \rightarrow \omega \rightarrow 12 \rightarrow 22 \rightarrow t_n = \frac{1}{\sqrt{11}} + \frac{-1}{\sqrt{11}} + 0 \rightarrow \text{از دو طرف}$$

$$t_{10} = \frac{1}{\sqrt{11}}(10) + 100(-\frac{1}{\sqrt{11}}) = 100$$

$$t_1 = \frac{1}{\sqrt{11}}(1)^2 + (b)(1) + 0$$

$$\frac{1}{\sqrt{11}} + \frac{b}{\frac{1}{\sqrt{11}}} = 1 \quad t_1 = \frac{1}{\sqrt{11}}(\frac{1}{\sqrt{11}}) + 1(-\frac{1}{\sqrt{11}}) = 0 \quad \checkmark$$

$$1 = 2a$$

$$a = \frac{1}{2}$$

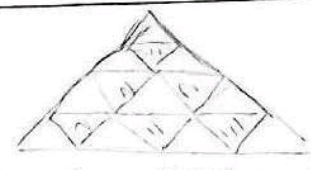
$$0 \rightarrow 1 \rightarrow 3 \rightarrow 6 \rightarrow t_n = (a\omega = \frac{1}{\sqrt{11}}(n)^2 - \frac{1}{\sqrt{11}}n)$$

$$110 = n^2 - n \rightarrow n^2 - n - 110 \rightarrow (n-11)(n+10)$$

$$1 = 2a$$

$$a = \frac{1}{2}$$

$$t_n = \frac{1}{2}n^2 + (b)n + (c) \rightarrow \text{از دو طرف}$$

$$t_1 = \frac{1}{2}(1)^2 + b(1) = 0 \quad \frac{1}{2} + b = 0$$


$n = 11 \quad \checkmark$
 $n = -10 \times$
 منفی غیر قابل قبول

$$0 \rightarrow 1 \rightarrow 3 \rightarrow 6 \rightarrow t_n = an + b$$

$$t_n = 11n - 3 \quad t_{11} = 11 \times 11 - 3 = 118 - 3 = 115$$

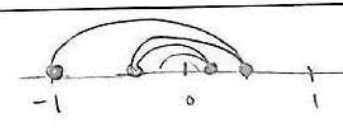
$$0 \rightarrow 1 \rightarrow 4 \rightarrow 13 \rightarrow t_n = an + b$$

$$t_n = 4n + 1 \quad t_{11} = 4 \times 11 + 1 = 45$$

$$a_1 = \frac{(-1)^1}{1} = -1$$

$$a_2 = \frac{(-1)^2}{2} = \frac{1}{2}$$

$$a_3 = \frac{(-1)^3}{3} = -\frac{1}{3}$$

$$a_4 = \frac{(-1)^4}{4} = \frac{1}{4}$$


$$b_3 = (-3)^3 - v(3)$$

$$-27 - 21 = -48$$

$$a_n = -48 = -\omega n + 22$$

$$-48 = -\omega n$$

$$\omega n = 48 \quad n = 12 = 12$$

$$d = \frac{t_m - t_n}{m - n} \rightarrow \frac{11}{10-9} = r$$

$$t_9 - t_1 = ?$$

$$t_9 + 9d - t_1 = 9d = (r_0)$$

$$a_1 = 10, a_2 = 15, a_3 = 20, \dots, a_n = 10 + (n-1)5 = 5n + 5$$

$$b_1 = 10, b_2 = 15, b_3 = 20, \dots, b_n = 10 + (n-1)5 = 5n + 5$$

$$b_n = 10 + (n-1)5 = 5n + 5$$

$$t_n = \frac{1}{2}n^2 + \frac{1}{2}n$$

$$t_n = 5n + 5$$

$$t_n = \frac{5n^2 - 5}{2n + 1} < \frac{5}{2}$$

$$5n - 5 < 5n + 1$$

$$n < \frac{1}{5}, n < \frac{1}{5}, n < \frac{1}{5}$$

$$t_n = 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, \dots$$

$$rA + 2B = 5(-\frac{1}{5}) + 2(\frac{10}{5}) = -1 + 4 = 3$$

$$t_n = An^2 + Bn$$

$$5 = t_1 = (A+B)1 = A+B$$

$$10 = t_2 = 4A + 2B$$

$$A = \frac{1}{5}, B = \frac{4}{5}$$

$$t_n = -5, -1, 3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 43, 47, 51, 55, 59, 63, 67, 71, 75, 79, 83, 87, 91, 95, 99, 103, 107, 111, 115, 119, 123, 127, 131, 135, 139, 143, 147, 151, 155, 159, 163, 167, 171, 175, 179, 183, 187, 191, 195, 199, 203, 207, 211, 215, 219, 223, 227, 231, 235, 239, 243, 247, 251, 255, 259, 263, 267, 271, 275, 279, 283, 287, 291, 295, 299, 303, 307, 311, 315, 319, 323, 327, 331, 335, 339, 343, 347, 351, 355, 359, 363, 367, 371, 375, 379, 383, 387, 391, 395, 399, 403, 407, 411, 415, 419, 423, 427, 431, 435, 439, 443, 447, 451, 455, 459, 463, 467, 471, 475, 479, 483, 487, 491, 495, 499, 503, 507, 511, 515, 519, 523, 527, 531, 535, 539, 543, 547, 551, 555, 559, 563, 567, 571, 575, 579, 583, 587, 591, 595, 599, 603, 607, 611, 615, 619, 623, 627, 631, 635, 639, 643, 647, 651, 655, 659, 663, 667, 671, 675, 679, 683, 687, 691, 695, 699, 703, 707, 711, 715, 719, 723, 727, 731, 735, 739, 743, 747, 751, 755, 759, 763, 767, 771, 775, 779, 783, 787, 791, 795, 799, 803, 807, 811, 815, 819, 823, 827, 831, 835, 839, 843, 847, 851, 855, 859, 863, 867, 871, 875, 879, 883, 887, 891, 895, 899, 903, 907, 911, 915, 919, 923, 927, 931, 935, 939, 943, 947, 951, 955, 959, 963, 967, 971, 975, 979, 983, 987, 991, 995, 999, 1003, 1007, 1011, 1015, 1019, 1023, 1027, 1031, 1035, 1039, 1043, 1047, 1051, 1055, 1059, 1063, 1067, 1071, 1075, 1079, 1083, 1087, 1091, 1095, 1099, 1103, 1107, 1111, 1115, 1119, 1123, 1127, 1131, 1135, 1139, 1143, 1147, 1151, 1155, 1159, 1163, 1167, 1171, 1175, 1179, 1183, 1187, 1191, 1195, 1199, 1203, 1207, 1211, 1215, 1219, 1223, 1227, 1231, 1235, 1239, 1243, 1247, 1251, 1255, 1259, 1263, 1267, 1271, 1275, 1279, 1283, 1287, 1291, 1295, 1299, 1303, 1307, 1311, 1315, 1319, 1323, 1327, 1331, 1335, 1339, 1343, 1347, 1351, 1355, 1359, 1363, 1367, 1371, 1375, 1379, 1383, 1387, 1391, 1395, 1399, 1403, 1407, 1411, 1415, 1419, 1423, 1427, 1431, 1435, 1439, 1443, 1447, 1451, 1455, 1459, 1463, 1467, 1471, 1475, 1479, 1483, 1487, 1491, 1495, 1499, 1503, 1507, 1511, 1515, 1519, 1523, 1527, 1531, 1535, 1539, 1543, 1547, 1551, 1555, 1559, 1563, 1567, 1571, 1575, 1579, 1583, 1587, 1591, 1595, 1599, 1603, 1607, 1611, 1615, 1619, 1623, 1627, 1631, 1635, 1639, 1643, 1647, 1651, 1655, 1659, 1663, 1667, 1671, 1675, 1679, 1683, 1687, 1691, 1695, 1699, 1703, 1707, 1711, 1715, 1719, 1723, 1727, 1731, 1735, 1739, 1743, 1747, 1751, 1755, 1759, 1763, 1767, 1771, 1775, 1779, 1783, 1787, 1791, 1795, 1799, 1803, 1807, 1811, 1815, 1819, 1823, 1827, 1831, 1835, 1839, 1843, 1847, 1851, 1855, 1859, 1863, 1867, 1871, 1875, 1879, 1883, 1887, 1891, 1895, 1899, 1903, 1907, 1911, 1915, 1919, 1923, 1927, 1931, 1935, 1939, 1943, 1947, 1951, 1955, 1959, 1963, 1967, 1971, 1975, 1979, 1983, 1987, 1991, 1995, 1999, 2003, 2007, 2011, 2015, 2019, 2023, 2027, 2031, 2035, 2039, 2043, 2047, 2051, 2055, 2059, 2063, 2067, 2071, 2075, 2079, 2083, 2087, 2091, 2095, 2099, 2103, 2107, 2111, 2115, 2119, 2123, 2127, 2131, 2135, 2139, 2143, 2147, 2151, 2155, 2159, 2163, 2167, 2171, 2175, 2179, 2183, 2187, 2191, 2195, 2199, 2203, 2207, 2211, 2215, 2219, 2223, 2227, 2231, 2235, 2239, 2243, 2247, 2251, 2255, 2259, 2263, 2267, 2271, 2275, 2279, 2283, 2287, 2291, 2295, 2299, 2303, 2307, 2311, 2315, 2319, 2323, 2327, 2331, 2335, 2339, 2343, 2347, 2351, 2355, 2359, 2363, 2367, 2371, 2375, 2379, 2383, 2387, 2391, 2395, 2399, 2403, 2407, 2411, 2415, 2419, 2423, 2427, 2431, 2435, 2439, 2443, 2447, 2451, 2455, 2459, 2463, 2467, 2471, 2475, 2479, 2483, 2487, 2491, 2495, 2499, 2503, 2507, 2511, 2515, 2519, 2523, 2527, 2531, 2535, 2539, 2543, 2547, 2551, 2555, 2559, 2563, 2567, 2571, 2575, 2579, 2583, 2587, 2591, 2595, 2599, 2603, 2607, 2611, 2615, 2619, 2623, 2627, 2631, 2635, 2639, 2643, 2647, 2651, 2655, 2659, 2663, 2667, 2671, 2675, 2679, 2683, 2687, 2691, 2695, 2699, 2703, 2707, 2711, 2715, 2719, 2723, 2727, 2731, 2735, 2739, 2743, 2747, 2751, 2755, 2759, 2763, 2767, 2771, 2775, 2779, 2783, 2787, 2791, 2795, 2799, 2803, 2807, 2811, 2815, 2819, 2823, 2827, 2831, 2835, 2839, 2843, 2847, 2851, 2855, 2859, 2863, 2867, 2871, 2875, 2879, 2883, 2887, 2891, 2895, 2899, 2903, 2907, 2911, 2915, 2919, 2923, 2927, 2931, 2935, 2939, 2943, 2947, 2951, 2955, 2959, 2963, 2967, 2971, 2975, 2979, 2983, 2987, 2991, 2995, 2999, 3003, 3007, 3011, 3015, 3019, 3023, 3027, 3031, 3035, 3039, 3043, 3047, 3051, 3055, 3059, 3063, 3067, 3071, 3075, 3079, 3083, 3087, 3091, 3095, 3099, 3103, 3107, 3111, 3115, 3119, 3123, 3127, 3131, 3135, 3139, 3143, 3147, 3151, 3155, 3159, 3163, 3167, 3171, 3175, 3179, 3183, 3187, 3191, 3195, 3199, 3203, 3207, 3211, 3215, 3219, 3223, 3227, 3231, 3235, 3239, 3243, 3247, 3251, 3255, 3259, 3263, 3267, 3271, 3275, 3279, 3283, 3287, 3291, 3295, 3299, 3303, 3307, 3311, 3315, 3319, 3323, 3327, 3331, 3335, 3339, 3343, 3347, 3351, 3355, 3359, 3363, 3367, 3371, 3375, 3379, 3383, 3387, 3391, 3395, 3399, 3403, 3407, 3411, 3415, 3419, 3423, 3427, 3431, 3435, 3439, 3443, 3447, 3451, 3455, 3459, 3463, 3467, 3471, 3475, 3479, 3483, 3487, 3491, 3495, 3499, 3503, 3507, 3511, 3515, 3519, 3523, 3527, 3531, 3535, 3539, 3543, 3547, 3551, 3555, 3559, 3563, 3567, 3571, 3575, 3579, 3583, 3587, 3591, 3595, 3599, 3603, 3607, 3611, 3615, 3619, 3623, 3627, 3631, 3635, 3639, 3643, 3647, 3651, 3655, 3659, 3663, 3667, 3671, 3675, 3679, 3683, 3687, 3691, 3695, 3699, 3703, 3707, 3711, 3715, 3719, 3723, 3727, 3731, 3735, 3739, 3743, 3747, 3751, 3755, 3759, 3763, 3767, 3771, 3775, 3779, 3783, 3787, 3791, 3795, 3799, 3803, 3807, 3811, 3815, 3819, 3823, 3827, 3831, 3835, 3839, 3843, 3847, 3851, 3855, 3859, 3863, 3867, 3871, 3875, 3879, 3883, 3887, 3891, 3895, 3899, 3903, 3907, 3911, 3915, 3919, 3923, 3927, 3931, 3935, 3939, 3943, 3947, 3951, 3955, 3959, 3963, 3967, 3971, 3975, 3979, 3983, 3987, 3991, 3995, 3999, 4003, 4007, 4011, 4015, 4019, 4023, 4027, 4031, 4035, 4039, 4043, 4047, 4051, 4055, 4059, 4063, 4067, 4071, 4075, 4079, 4083, 4087, 4091, 4095, 4099, 4103, 4107, 4111, 4115, 4119, 4123, 4127, 4131, 4135, 4139, 4143, 4147, 4151, 4155, 4159, 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