

الف) $a_n = \sum_{k=1}^n (2k+1)$

۲- $\sum_{k=1}^n (2k+1) = \frac{n}{2} (2a_1 + (n-1)d)$ $\frac{1}{2} (12 + 19 \times 4) = 240$

ب) $n = 4 \times 15 = 60$

$\sum_{k=1}^n (2k+1) \Rightarrow (12 + 118) \times \frac{60}{2} = 3480$

۱- $2a \rightarrow 125, 126, 127, 128, 129, 130$
 $2a \rightarrow 123, 124, 125, 126, 127, 128$
 اختلاف $2 - \sqrt{2}$ و $1 + \sqrt{2}$

$a_n, \delta^{rm}, 2 \times \delta^{rm}, \delta^y$ $\delta^{rm} + \delta^y, 2 \times \delta^{rm}, \delta^{rm}$

$\delta^y = 4 \times \delta^{rm} - \delta^{rm}$
 $\delta^y = \delta^{rm+1}$

$b_n \rightarrow u, r, y$ $x+y \leq \epsilon$
 $x+y \leq \epsilon$ $y \leq 1$ $xy \leq 1$

$2x-1, 2x-1, 4x, 4x+3$ $-3, 0, 3, 4$

$4x-4 \leq 2n-1$ $\frac{4x-4}{2} \leq \frac{2n-1}{2}$ $2x-2 \leq n-0.5$

$a_1 = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60$

$2n+1 \rightarrow 2n-1$ $\delta, 11, 14, \dots$

$a_1, \delta a_1 \leftarrow 2n-1$ $2n-1, 5, 11, 17, 23, 29, 35, 41, 47, 53, 59, 65, 71, 77, 83, 89, 95, 101, 107, 113, 119, 125, 131, 137, 143, 149, 155, 161, 167, 173, 179, 185, 191, 197, 203, 209, 215, 221, 227, 233, 239, 245, 251, 257, 263, 269, 275, 281, 287, 293, 299, 305, 311, 317, 323, 329, 335, 341, 347, 353, 359, 365, 371, 377, 383, 389, 395, 401, 407, 413, 419, 425, 431, 437, 443, 449, 455, 461, 467, 473, 479, 485, 491, 497, 503, 509, 515, 521, 527, 533, 539, 545, 551, 557, 563, 569, 575, 581, 587, 593, 599, 605, 611, 617, 623, 629, 635, 641, 647, 653, 659, 665, 671, 677, 683, 689, 695, 701, 707, 713, 719, 725, 731, 737, 743, 749, 755, 761, 767, 773, 779, 785, 791, 797, 803, 809, 815, 821, 827, 833, 839, 845, 851, 857, 863, 869, 875, 881, 887, 893, 899, 905, 911, 917, 923, 929, 935, 941, 947, 953, 959, 965, 971, 977, 983, 989, 995$

$2a_1 + 2a = 11$ $2a_1 + 4a = 10$ $a_1 + a = 11 - a$

$X(a_1 + a) = \frac{11}{2}$ $11 - a - a = 11 - 2a$

$2a = 11$ $a = 5.5$ $11 - 2a = 11 - 11 = 0$

$a_1 + a = 11$ $a_1 + 2a = 11$ $a_1 = 11 - 2a$

$$\frac{11v}{-11} = -\frac{1}{r}$$

$$S_r = \frac{r}{r} (ra + rd) = 10 \rightarrow a + d = 10 \quad S_0 = 10 + 10 = 20$$

$$S_0 = \frac{2}{r} (ra + rd) = 20 \quad a + rd = 1$$

$$a + rd = 1 \quad a = r \quad a_1 = r + (r)^r = r^2$$

$$a + d = 0$$

$$d = -r$$

$$\frac{A}{r} (ra_1 + 1d) = 8 \times \frac{r}{r} (ra_1 + rd)$$

$$a_1 + rd = ra_1 + rd$$

$$d = ra_1$$

$$\frac{a_r}{a_r} = \frac{a_1 + 19d}{a_1 + 4d} = \frac{a_1 + 19 + 4ra_1}{a_1 + 4ra_1}$$

$$a_v = a_1 + 4d = 10 \quad 4d = 12 \quad d = 3 \quad a_1 = 11 + 12 = 23$$

$$d = \frac{a_m - a_n}{m - n} = \frac{23 - 11}{2 - 1} = 12 \quad d = \frac{b - a}{n + 1} = \frac{12 - 11}{n + 1}$$

$$n = 1$$