

الف) $E_n = 2n^2 - 1 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$n=1 \rightarrow 1$
 $n=2 \rightarrow 3$
 $n=3 \rightarrow 5$
 $n=4 \rightarrow 7$
 $n=5 \rightarrow 9$
 $n=6 \rightarrow 11$

ب) $E_n = \frac{2n+1}{n+2} \rightarrow \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}, \frac{11}{12}, \frac{13}{14}, \frac{15}{16}, \frac{17}{18}, \frac{19}{20}, \frac{21}{22}, \frac{23}{24}, \frac{25}{26}, \frac{27}{28}, \frac{29}{30}, \frac{31}{32}, \frac{33}{34}, \frac{35}{36}, \frac{37}{38}, \frac{39}{40}, \frac{41}{42}, \frac{43}{44}, \frac{45}{46}, \frac{47}{48}, \frac{49}{50}, \frac{51}{52}, \frac{53}{54}, \frac{55}{56}, \frac{57}{58}, \frac{59}{60}, \frac{61}{62}, \frac{63}{64}, \frac{65}{66}, \frac{67}{68}, \frac{69}{70}, \frac{71}{72}, \frac{73}{74}, \frac{75}{76}, \frac{77}{78}, \frac{79}{80}, \frac{81}{82}, \frac{83}{84}, \frac{85}{86}, \frac{87}{88}, \frac{89}{90}, \frac{91}{92}, \frac{93}{94}, \frac{95}{96}, \frac{97}{98}, \frac{99}{100}$

$n=1$
 $n=2$
 $n=3$
 $n=4$

ص

الف) $E_n = \frac{(-1)^n}{\sqrt{n+2}} \rightarrow \frac{-1}{\sqrt{3}}, \frac{1}{\sqrt{4}}, \frac{-1}{\sqrt{5}}, \frac{1}{\sqrt{6}}, \frac{-1}{\sqrt{7}}, \frac{1}{\sqrt{8}}, \frac{-1}{\sqrt{9}}, \frac{1}{\sqrt{10}}, \frac{-1}{\sqrt{11}}, \frac{1}{\sqrt{12}}, \frac{-1}{\sqrt{13}}, \frac{1}{\sqrt{14}}, \frac{-1}{\sqrt{15}}, \frac{1}{\sqrt{16}}, \frac{-1}{\sqrt{17}}, \frac{1}{\sqrt{18}}, \frac{-1}{\sqrt{19}}, \frac{1}{\sqrt{20}}, \frac{-1}{\sqrt{21}}, \frac{1}{\sqrt{22}}, \frac{-1}{\sqrt{23}}, \frac{1}{\sqrt{24}}, \frac{-1}{\sqrt{25}}, \frac{1}{\sqrt{26}}, \frac{-1}{\sqrt{27}}, \frac{1}{\sqrt{28}}, \frac{-1}{\sqrt{29}}, \frac{1}{\sqrt{30}}, \frac{-1}{\sqrt{31}}, \frac{1}{\sqrt{32}}, \frac{-1}{\sqrt{33}}, \frac{1}{\sqrt{34}}, \frac{-1}{\sqrt{35}}, \frac{1}{\sqrt{36}}, \frac{-1}{\sqrt{37}}, \frac{1}{\sqrt{38}}, \frac{-1}{\sqrt{39}}, \frac{1}{\sqrt{40}}, \frac{-1}{\sqrt{41}}, \frac{1}{\sqrt{42}}, \frac{-1}{\sqrt{43}}, \frac{1}{\sqrt{44}}, \frac{-1}{\sqrt{45}}, \frac{1}{\sqrt{46}}, \frac{-1}{\sqrt{47}}, \frac{1}{\sqrt{48}}, \frac{-1}{\sqrt{49}}, \frac{1}{\sqrt{50}}, \frac{-1}{\sqrt{51}}, \frac{1}{\sqrt{52}}, \frac{-1}{\sqrt{53}}, \frac{1}{\sqrt{54}}, \frac{-1}{\sqrt{55}}, \frac{1}{\sqrt{56}}, \frac{-1}{\sqrt{57}}, \frac{1}{\sqrt{58}}, \frac{-1}{\sqrt{59}}, \frac{1}{\sqrt{60}}, \frac{-1}{\sqrt{61}}, \frac{1}{\sqrt{62}}, \frac{-1}{\sqrt{63}}, \frac{1}{\sqrt{64}}, \frac{-1}{\sqrt{65}}, \frac{1}{\sqrt{66}}, \frac{-1}{\sqrt{67}}, \frac{1}{\sqrt{68}}, \frac{-1}{\sqrt{69}}, \frac{1}{\sqrt{70}}, \frac{-1}{\sqrt{71}}, \frac{1}{\sqrt{72}}, \frac{-1}{\sqrt{73}}, \frac{1}{\sqrt{74}}, \frac{-1}{\sqrt{75}}, \frac{1}{\sqrt{76}}, \frac{-1}{\sqrt{77}}, \frac{1}{\sqrt{78}}, \frac{-1}{\sqrt{79}}, \frac{1}{\sqrt{80}}, \frac{-1}{\sqrt{81}}, \frac{1}{\sqrt{82}}, \frac{-1}{\sqrt{83}}, \frac{1}{\sqrt{84}}, \frac{-1}{\sqrt{85}}, \frac{1}{\sqrt{86}}, \frac{-1}{\sqrt{87}}, \frac{1}{\sqrt{88}}, \frac{-1}{\sqrt{89}}, \frac{1}{\sqrt{90}}, \frac{-1}{\sqrt{91}}, \frac{1}{\sqrt{92}}, \frac{-1}{\sqrt{93}}, \frac{1}{\sqrt{94}}, \frac{-1}{\sqrt{95}}, \frac{1}{\sqrt{96}}, \frac{-1}{\sqrt{97}}, \frac{1}{\sqrt{98}}, \frac{-1}{\sqrt{99}}, \frac{1}{\sqrt{100}}$

ب) $E_n = \left[\frac{12}{n} - \frac{1}{n^2} \right] \rightarrow 12 - 1 = 11, 6 - \frac{1}{4} = 5.75, 4 - \frac{1}{9} = 3.89, 3 - \frac{1}{16} = 2.94, 2 - \frac{1}{25} = 1.96, 1 - \frac{1}{36} = 0.97, 0 - \frac{1}{49} = -0.02, -1 - \frac{1}{64} = -1.01, -2 - \frac{1}{81} = -2.01, -3 - \frac{1}{100} = -3.01, -4 - \frac{1}{121} = -4.008, -5 - \frac{1}{144} = -5.007, -6 - \frac{1}{169} = -6.006, -7 - \frac{1}{196} = -7.005, -8 - \frac{1}{225} = -8.004, -9 - \frac{1}{256} = -9.004, -10 - \frac{1}{289} = -10.003, -11 - \frac{1}{324} = -11.003, -12 - \frac{1}{361} = -12.003, -13 - \frac{1}{396} = -13.003, -14 - \frac{1}{441} = -14.002, -15 - \frac{1}{490} = -15.002, -16 - \frac{1}{544} = -16.002, -17 - \frac{1}{601} = -17.002, -18 - \frac{1}{662} = -18.002, -19 - \frac{1}{728} = -19.001, -20 - \frac{1}{800} = -20.001, -21 - \frac{1}{877} = -21.001, -22 - \frac{1}{960} = -22.001, -23 - \frac{1}{1057} = -23.001, -24 - \frac{1}{1160} = -24.001, -25 - \frac{1}{1275} = -25.001, -26 - \frac{1}{1404} = -26.001, -27 - \frac{1}{1547} = -27.001, -28 - \frac{1}{1704} = -28.001, -29 - \frac{1}{1875} = -29.001, -30 - \frac{1}{2060} = -30.001, -31 - \frac{1}{2269} = -31.001, -32 - \frac{1}{2492} = -32.001, -33 - \frac{1}{2739} = -33.001, -34 - \frac{1}{3000} = -34.001, -35 - \frac{1}{3275} = -35.001, -36 - \frac{1}{3564} = -36.001, -37 - \frac{1}{3877} = -37.001, -38 - \frac{1}{4204} = -38.001, -39 - \frac{1}{4555} = -39.001, -40 - \frac{1}{4930} = -40.001, -41 - \frac{1}{5329} = -41.001, -42 - \frac{1}{5752} = -42.001, -43 - \frac{1}{6209} = -43.001, -44 - \frac{1}{6690} = -44.001, -45 - \frac{1}{7205} = -45.001, -46 - \frac{1}{7744} = -46.001, -47 - \frac{1}{8317} = -47.001, -48 - \frac{1}{8924} = -48.001, -49 - \frac{1}{9565} = -49.001, -50 - \frac{1}{10240} = -50.001, -51 - \frac{1}{10949} = -51.001, -52 - \frac{1}{11692} = -52.001, -53 - \frac{1}{12479} = -53.001, -54 - \frac{1}{13300} = -54.001, -55 - \frac{1}{14155} = -55.001, -56 - \frac{1}{15044} = -56.001, -57 - \frac{1}{15967} = -57.001, -58 - \frac{1}{16924} = -58.001, -59 - \frac{1}{17915} = -59.001, -60 - \frac{1}{18940} = -60.001, -61 - \frac{1}{20009} = -61.001, -62 - \frac{1}{21122} = -62.001, -63 - \frac{1}{22279} = -63.001, -64 - \frac{1}{23480} = -64.001, -65 - \frac{1}{24725} = -65.001, -66 - \frac{1}{25994} = -66.001, -67 - \frac{1}{27297} = -67.001, -68 - \frac{1}{28634} = -68.001, -69 - \frac{1}{29995} = -69.001, -70 - \frac{1}{31390} = -70.001, -71 - \frac{1}{32819} = -71.001, -72 - \frac{1}{34272} = -72.001, -73 - \frac{1}{35759} = -73.001, -74 - \frac{1}{37270} = -74.001, -75 - \frac{1}{38805} = -75.001, -76 - \frac{1}{40354} = -76.001, -77 - \frac{1}{41927} = -77.001, -78 - \frac{1}{43524} = -78.001, -79 - \frac{1}{45145} = -79.001, -80 - \frac{1}{46790} = -80.001, -81 - \frac{1}{48459} = -81.001, -82 - \frac{1}{50152} = -82.001, -83 - \frac{1}{51869} = -83.001, -84 - \frac{1}{53600} = -84.001, -85 - \frac{1}{55345} = -85.001, -86 - \frac{1}{57104} = -86.001, -87 - \frac{1}{58877} = -87.001, -88 - \frac{1}{60664} = -88.001, -89 - \frac{1}{62465} = -89.001, -90 - \frac{1}{64280} = -90.001, -91 - \frac{1}{66109} = -91.001, -92 - \frac{1}{67952} = -92.001, -93 - \frac{1}{69809} = -93.001, -94 - \frac{1}{71680} = -94.001, -95 - \frac{1}{73565} = -95.001, -96 - \frac{1}{75464} = -96.001, -97 - \frac{1}{77377} = -97.001, -98 - \frac{1}{79304} = -98.001, -99 - \frac{1}{81245} = -99.001, -100 - \frac{1}{83200} = -100.001$

1- ؟

الف) $E_n = 2n - 1$

$2n - 1 < 0 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$2n < 1$
 $n < 0.5 \rightarrow n, 1$

2-5

ب) $E_n = 12n - 1$

$12n - 1 < 0 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$(n-1)(n-2) < 0$

$1 < n < 2$
 $n < 2 \rightarrow n, 1$

3- چند جمله ای است ؟

5

الف) $E_n = 2n - 17$

$2n - 17 < 0 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$2n < 17$
 $n < 8.5 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

2-5

ب) $E_n = 12n + 25$

$12n + 25 < 0 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$(n-2)(n-3) < 0$

$2 < n < 3$
 $n < 3 \rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

8- چند جمله ای است ؟

5

$E_n = 5 \rightarrow 5a + b = 5$
 $E_9 = 22 \rightarrow 9a + b = 22$

$-5a - b = -5$
 $9a + b = 22$
 $14a = 17$
 $a = \frac{17}{14}$
 $b = -5 - 5a = -5 - \frac{85}{14} = -\frac{155}{14}$

$E_n = 2n - 5$

$E_n = \left(\frac{1}{n} \right) - a = 5$

$\frac{1}{n} - a = 5$
 $\frac{1}{n} = 5 + a$
 $n = \frac{1}{5+a}$

9- ؟ E_n (دنباله حسابی) است ؟

5

الف) $E_n = n^2 - 4n + 2$

$n=1 \rightarrow -1$
 $n=2 \rightarrow -2$
 $n=3 \rightarrow -1$
 $n=4 \rightarrow 2$
 $n=5 \rightarrow 7$
 $n=6 \rightarrow 14$
 $n=7 \rightarrow 23$
 $n=8 \rightarrow 34$
 $n=9 \rightarrow 47$
 $n=10 \rightarrow 62$
 $n=11 \rightarrow 79$
 $n=12 \rightarrow 98$
 $n=13 \rightarrow 119$
 $n=14 \rightarrow 142$
 $n=15 \rightarrow 167$
 $n=16 \rightarrow 194$
 $n=17 \rightarrow 223$
 $n=18 \rightarrow 254$
 $n=19 \rightarrow 287$
 $n=20 \rightarrow 322$
 $n=21 \rightarrow 359$
 $n=22 \rightarrow 398$
 $n=23 \rightarrow 439$
 $n=24 \rightarrow 482$
 $n=25 \rightarrow 527$
 $n=26 \rightarrow 574$
 $n=27 \rightarrow 623$
 $n=28 \rightarrow 674$
 $n=29 \rightarrow 727$
 $n=30 \rightarrow 782$
 $n=31 \rightarrow 839$
 $n=32 \rightarrow 898$
 $n=33 \rightarrow 959$
 $n=34 \rightarrow 1022$
 $n=35 \rightarrow 1087$
 $n=36 \rightarrow 1154$
 $n=37 \rightarrow 1223$
 $n=38 \rightarrow 1294$
 $n=39 \rightarrow 1367$
 $n=40 \rightarrow 1442$
 $n=41 \rightarrow 1519$
 $n=42 \rightarrow 1598$
 $n=43 \rightarrow 1679$
 $n=44 \rightarrow 1762$
 $n=45 \rightarrow 1847$
 $n=46 \rightarrow 1934$
 $n=47 \rightarrow 2023$
 $n=48 \rightarrow 2114$
 $n=49 \rightarrow 2207$
 $n=50 \rightarrow 2302$
 $n=51 \rightarrow 2400$
 $n=52 \rightarrow 2499$
 $n=53 \rightarrow 2599$
 $n=54 \rightarrow 2700$
 $n=55 \rightarrow 2803$
 $n=56 \rightarrow 2908$
 $n=57 \rightarrow 3015$
 $n=58 \rightarrow 3124$
 $n=59 \rightarrow 3235$
 $n=60 \rightarrow 3348$
 $n=61 \rightarrow 3463$
 $n=62 \rightarrow 3580$
 $n=63 \rightarrow 3699$
 $n=64 \rightarrow 3820$
 $n=65 \rightarrow 3943$
 $n=66 \rightarrow 4068$
 $n=67 \rightarrow 4195$
 $n=68 \rightarrow 4324$
 $n=69 \rightarrow 4455$
 $n=70 \rightarrow 4588$
 $n=71 \rightarrow 4723$
 $n=72 \rightarrow 4860$
 $n=73 \rightarrow 5000$
 $n=74 \rightarrow 5142$
 $n=75 \rightarrow 5287$
 $n=76 \rightarrow 5434$
 $n=77 \rightarrow 5583$
 $n=78 \rightarrow 5734$
 $n=79 \rightarrow 5887$
 $n=80 \rightarrow 6042$
 $n=81 \rightarrow 6200$
 $n=82 \rightarrow 6360$
 $n=83 \rightarrow 6523$
 $n=84 \rightarrow 6688$
 $n=85 \rightarrow 6855$
 $n=86 \rightarrow 7024$
 $n=87 \rightarrow 7195$
 $n=88 \rightarrow 7368$
 $n=89 \rightarrow 7543$
 $n=90 \rightarrow 7720$
 $n=91 \rightarrow 7900$
 $n=92 \rightarrow 8082$
 $n=93 \rightarrow 8267$
 $n=94 \rightarrow 8454$
 $n=95 \rightarrow 8643$
 $n=96 \rightarrow 8834$
 $n=97 \rightarrow 9027$
 $n=98 \rightarrow 9222$
 $n=99 \rightarrow 9420$
 $n=100 \rightarrow 9620$

ب) $E_n = n^2 - 4n + 1$

$n=1 \rightarrow -2$
 $n=2 \rightarrow -3$
 $n=3 \rightarrow -2$
 $n=4 \rightarrow 3$
 $n=5 \rightarrow 10$
 $n=6 \rightarrow 19$
 $n=7 \rightarrow 30$
 $n=8 \rightarrow 43$
 $n=9 \rightarrow 58$
 $n=10 \rightarrow 75$
 $n=11 \rightarrow 94$
 $n=12 \rightarrow 115$
 $n=13 \rightarrow 138$
 $n=14 \rightarrow 163$
 $n=15 \rightarrow 190$
 $n=16 \rightarrow 219$
 $n=17 \rightarrow 250$
 $n=18 \rightarrow 283$
 $n=19 \rightarrow 318$
 $n=20 \rightarrow 355$
 $n=21 \rightarrow 394$
 $n=22 \rightarrow 435$
 $n=23 \rightarrow 478$
 $n=24 \rightarrow 523$
 $n=25 \rightarrow 570$
 $n=26 \rightarrow 619$
 $n=27 \rightarrow 670$
 $n=28 \rightarrow 723$
 $n=29 \rightarrow 778$
 $n=30 \rightarrow 835$
 $n=31 \rightarrow 894$
 $n=32 \rightarrow 955$
 $n=33 \rightarrow 1018$
 $n=34 \rightarrow 1083$
 $n=35 \rightarrow 1150$
 $n=36 \rightarrow 1219$
 $n=37 \rightarrow 1290$
 $n=38 \rightarrow 1363$
 $n=39 \rightarrow 1438$
 $n=40 \rightarrow 1515$
 $n=41 \rightarrow 1594$
 $n=42 \rightarrow 1675$
 $n=43 \rightarrow 1758$
 $n=44 \rightarrow 1843$
 $n=45 \rightarrow 1930$
 $n=46 \rightarrow 2019$
 $n=47 \rightarrow 2110$
 $n=48 \rightarrow 2203$
 $n=49 \rightarrow 2298$
 $n=50 \rightarrow 2395$
 $n=51 \rightarrow 2494$
 $n=52 \rightarrow 2595$
 $n=53 \rightarrow 2698$
 $n=54 \rightarrow 2803$
 $n=55 \rightarrow 2910$
 $n=56 \rightarrow 3019$
 $n=57 \rightarrow 3130$
 $n=58 \rightarrow 3243$
 $n=59 \rightarrow 3358$
 $n=60 \rightarrow 3475$
 $n=61 \rightarrow 3594$
 $n=62 \rightarrow 3715$
 $n=63 \rightarrow 3838$
 $n=64 \rightarrow 3963$
 $n=65 \rightarrow 4090$
 $n=66 \rightarrow 4219$
 $n=67 \rightarrow 4350$
 $n=68 \rightarrow 4483$
 $n=69 \rightarrow 4618$
 $n=70 \rightarrow 4755$
 $n=71 \rightarrow 4894$
 $n=72 \rightarrow 5035$
 $n=73 \rightarrow 5178$
 $n=74 \rightarrow 5323$
 $n=75 \rightarrow 5470$
 $n=76 \rightarrow 5619$
 $n=77 \rightarrow 5770$
 $n=78 \rightarrow 5923$
 $n=79 \rightarrow 6078$
 $n=80 \rightarrow 6235$
 $n=81 \rightarrow 6394$
 $n=82 \rightarrow 6555$
 $n=83 \rightarrow 6718$
 $n=84 \rightarrow 6883$
 $n=85 \rightarrow 7050$
 $n=86 \rightarrow 7219$
 $n=87 \rightarrow 7390$
 $n=88 \rightarrow 7563$
 $n=89 \rightarrow 7738$
 $n=90 \rightarrow 7915$
 $n=91 \rightarrow 8094$
 $n=92 \rightarrow 8275$
 $n=93 \rightarrow 8458$
 $n=94 \rightarrow 8643$
 $n=95 \rightarrow 8830$
 $n=96 \rightarrow 9019$
 $n=97 \rightarrow 9210$
 $n=98 \rightarrow 9403$
 $n=99 \rightarrow 9598$
 $n=100 \rightarrow 9795$

1

4- کتبی جمله

الف) $E_n = -1, -3, -5, -7, -9, -11, -13, -15, -17, -19, -21, -23, -25, -27, -29, -31, -33, -35, -37, -39, -41, -43, -45, -47, -49, -51, -53, -55, -57, -59, -61, -63, -65, -67, -69, -71, -73, -75, -77, -79, -81, -83, -85, -87, -89, -91, -93, -95, -97, -99$

$a_n = a \cdot n^2 + b \cdot n + c \rightarrow a_n = n^2 - 4n + 1 \rightarrow a_1 = 1 - 4 + 1 = -2$

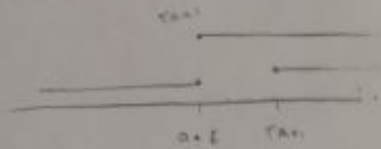
5

الف) $E_n = 4, -1, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$

$a_n = a \cdot n^2 + b \cdot n + c$
 $a_1 = 4 = a + b + c$
 $a_2 = -1 = 4a + 2b + c$
 $a_3 = 1 = 9a + 3b + c$
 $a_4 = 2 = 16a + 4b + c$
 $a_5 = 3 = 25a + 5b + c$
 $a_6 = 4 = 36a + 6b + c$
 $a_7 = 5 = 49a + 7b + c$
 $a_8 = 6 = 64a + 8b + c$
 $a_9 = 7 = 81a + 9b + c$
 $a_{10} = 8 = 100a + 10b + c$

5

8- چند جمله ای



$$a \in \mathbb{R}, \epsilon > 0$$

$$\frac{a}{2}$$

$$a \in \mathbb{R}, \epsilon > 0 \quad (-\infty, a+\epsilon] \cap [a-\epsilon, \infty)$$

(۳)

-۹

(۳)

-۱۰

$$1, 2, \dots, 10$$

$$\frac{1+10}{2} + 1 = 19$$

(ب) کسین بدید بر ۱۵

$$1, 2, \dots, 19$$

$$\frac{1+19}{2} + 1 = 33$$

(ا) کسین بدید بر ۳

$$1, 2, \dots, 10$$

$$\frac{1+10}{2} + 1 = 24$$

(ج) کسین بدید بر ۲ و ۵

(د) کسین بدید بر ۳ یا ۱۵

۱۵

$$\Rightarrow n(A \cup B) = n(A) + n(B) - n(A \cap B)$$

$$\frac{10 + 19 - 4}{2} = 44$$

$$\rightarrow 13 \text{ کسین بدید بر ۲}$$

$$\rightarrow 19 \text{ کسین بدید بر ۵}$$

$$\rightarrow 4 \text{ کسین بدید بر ۳}$$