

$$n^r - 9n + 2 \Rightarrow 9 - 18 + 2 = (-7) \checkmark$$

1, 4, 5

$$-\frac{b}{2a} = \frac{9}{1} = 9$$

n از يك شروع مي شود

min 2. → 1. → t1=9

$$n^r + 7n + 1 \Rightarrow 7 - 18 + 1 = -10$$

$$-\frac{b}{2a} = \frac{-7}{1} = -7$$

$$t_n = -f, -v, -a, -v, -f$$

$$-0, -3, -1, +1, +9$$

$$+2, +2, +2$$

7

$$a=1$$

$$c=1$$

$$b=-9$$

$$x^r - 9x + 1 \Rightarrow t_1 = 100 - 90 + 1 = 11$$

$$t_n = -9, -1, 8, 2$$

$$-v, +1, +9, +19$$

$$+4, +6$$

7

$$a=2$$

$$c=-7$$

$$b=-1$$

$$2x^r - x - 7 \checkmark$$

$$a+f \leq 2a+1 \Rightarrow 2 \leq a \Rightarrow [2, \infty)$$

7

$$49 \leq 99 \Rightarrow \frac{99-9}{2} + 1 = 45 \checkmark$$

$$0 \leq 90 \Rightarrow \frac{90-0}{0} + 1 = 19 \checkmark$$

$$10 \leq 90 \Rightarrow \frac{90-10}{10} + 1 = 9 \checkmark$$

7

$$n(A) + n(B) - n(A \cap B) \Rightarrow 22 + 19 - 6 = 35$$

الف)

ب)

ج) 1.

د)

۱۴۰۰

$$r_n^r - 1 = t_1) 2 \quad t_2) 11 \quad t_3) 29 \quad t_4) 47 \quad t_5) 74 \quad \checkmark$$

$$\frac{r_{n+1}}{n+r} = t_1) \frac{3}{5} \quad t_2) \frac{5}{9} \quad t_3) \frac{7}{11} = 1 \quad t_4) \frac{9}{13} \quad t_5) \frac{11}{15} \quad \checkmark$$

$$\frac{(-1)^n}{\sqrt{n+r}} \Rightarrow t_{13} = \frac{(-1)^{13}}{\sqrt{19}} = \left(\frac{-1}{\sqrt{19}} \right) \quad \checkmark$$

$$t_n = r_n - \left[\frac{n}{f} \right] \Rightarrow 24 - \left[\frac{13}{4} \right] = 23 \quad \checkmark$$

$$t_n = r_n - 1 \Rightarrow r_n - 1 < 0 \Rightarrow r_n < 1 \Rightarrow n < 5 \Rightarrow \text{خوبه} \quad \checkmark$$

$$t_n = r_n^r - 1fn + f_0 \Rightarrow (n-10)(n-4) < 0 \quad \begin{array}{c|cc} f & 4 & 10 \\ p(x) & + & - \end{array} \Rightarrow 0.9789 \Rightarrow \text{خوبه} \quad \checkmark$$

$$r_n - 19 \Rightarrow r_n - 19 \leq 0 \Rightarrow r_n \leq 19 \Rightarrow n \leq 18 \Rightarrow \text{خوبه} \quad \checkmark$$

$$r_n^r - 1fn + 2v \Rightarrow (n-4)(n-9) \leq 0 \Rightarrow \begin{array}{c|cc} f & 4 & 9 \\ p(x) & + & - \end{array} \Rightarrow \text{خوبه} \quad \checkmark$$

$$\begin{aligned} t_f &= f_a + b = v \\ t_a &= 9a + b = 2r \end{aligned} \Rightarrow \begin{cases} a = 3 \\ b = -5 \end{cases}$$

$$t_v = 2a + b \Rightarrow 9 + (-5) = 4 \quad \checkmark$$