

الف) 2, 11, 24, 47, 74

ب) $\frac{10}{2}, \frac{10}{4}, 1, \frac{9}{1}, \frac{11}{9}$

الف) $\frac{-1}{\sqrt{14}} = \frac{-1}{4}$

ب) $24 - \left[\frac{10}{4} \right] = 24 - 2 = 22$

الف) $2n - 10 < 0 \rightarrow 2n < 10 \rightarrow n < 5 \Rightarrow 1, 2, 3, 4 \Rightarrow 4$

ب) $n^2 - 14n + 40 < 0 \rightarrow (n - 10)(n - 4) < 0 \rightarrow 4, 5, 6, 7, 8, 9 \Rightarrow 6$

$\rightarrow \frac{4}{4 - 10} +$

الف) $2n - 14 \leq 0 \rightarrow 2n \leq 14 \rightarrow n \leq 7 \rightarrow 1, 2, 3, 4, 5, 6, 7 \Rightarrow 7$

ب) $n^2 - 12n + 27 \leq 0 \rightarrow (n - 9)(n - 3) \leq 0 \rightarrow 3, 4, 5, 6, 7, 8, 9 \Rightarrow 7$

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

$2r = v \rightarrow v = a + 7b$

$2q = 2r \rightarrow 2r = a + 9b$

$\rightarrow \begin{cases} 2r = a + 9b \\ v = a + 7b \end{cases}$

$10 = 10b \rightarrow b = 1$

$v = a + 7 \rightarrow a = -7$

$2r = -7 + 7(1) = 0$

$$a) n^r + an + r \rightarrow a > 0 \rightarrow \min \begin{cases} \frac{-b}{2a} = \frac{-a}{2} = -\frac{r}{2} \\ 4 + (-1a) + r = -V \end{cases}$$

$$b) n^r + kn + 1 \rightarrow a > 0 \rightarrow \min \begin{cases} \frac{-b}{2a} = \frac{-k}{2} = -\frac{r}{2} \\ k + (-1a) + 1 = -V \end{cases}$$

$$\begin{array}{ccccccc} -f & -V & -1 & -V & -f & & \\ \hline +r & -1 & +1 & +r & & & \\ \hline +r & +r & +r & \rightarrow ra \rightarrow a=1 \end{array}$$

$$n^r + bn + c$$

$$\rightarrow \begin{cases} -V = -f + rb + c \\ -f = 1 + b + c \\ -r = r + b \rightarrow b = -r \rightarrow C = 1 \rightarrow n^r - rn + 1 \rightarrow 100 - 100 + 1 = f1 \end{cases}$$

$$\begin{array}{ccccccc} -4 & -1 & 1 & 1 & & & \\ \hline +5 & +9 & +9 & & & & \\ \hline +f & +f & \rightarrow ra \end{array}$$

$$an^r + bn + c \rightarrow ra = f \rightarrow a = r$$

$$rn^r + bn + c \rightarrow \begin{cases} r + b + c = -4 \\ 1 + rb + c = -1 \end{cases} \rightarrow \begin{cases} -1 - b + c \\ -1 = rb + c \end{cases} \rightarrow b = -1 \rightarrow c = -V \rightarrow rn^r - n - V$$

$$ra + 1 \leq a + f \rightarrow a \leq r$$

$$\rightarrow (-\infty, r]$$

$$a) \frac{99-r}{r} + 1 = 44 \rightarrow A$$

$$b) \frac{100-2}{2} + 1 = 40 \rightarrow B$$

$$c) 10 \text{ مئة} \rightarrow \frac{90-10}{10} + 1 = 4 \rightarrow (A \cap B)$$

$$d) n(A \cup B) = n(A) + n(B) - n(A \cap B) \rightarrow 44 + 40 - 4 = 80$$