

الف) $2, 11, 26, 47, 74$ $(1) (2) (3) (4) (5)$	ب) $\frac{3}{5}, \frac{5}{6}, \frac{6}{7} = 1, \frac{9}{1}, \frac{11}{9}$ $(1) (2) (3) (4) (5)$ ج) $\frac{11}{9}$
الف) $t_{13} = \frac{(-1)^{13}}{\sqrt{13+13}} = \left(\frac{-1}{\sqrt{26}} \right)$	ب) $t_{13} = 2(13) - \left[\frac{13}{\sqrt{26}} \right] \rightarrow$ $26 - 13 = 13$
الف) $2n - 10 < 0$ $\rightarrow 2n < 10 \rightarrow n < 5$ $\rightarrow n \in \{1, 2, 3, 4\}$	ب) $(n-10)(n-5) < 0$ ج) $n \in \{5, 6, 7, 8, 9\}$
$2n - 16 \leq 0 \rightarrow 2n \leq 16 \rightarrow n \leq 8$ $\rightarrow n \in \{1, 2, \dots, 8\}$	الف) $(n-3)(n-9) \leq 0$ ب) $n \in [3, 9]$
... ج) $t_{\varepsilon} = 7$ $t_{\eta} = 12$ د) $d = \frac{12-7}{9-4} = \frac{5}{5} = 1$ ه) $u - 3 = 4$ $t_r = 4$	۵

الف) $\min_{x \in U} \begin{cases} \frac{-b}{2a} = \frac{4}{2} = 2 \\ x^2 - 6(2) + 1 = -7 \end{cases}$ $t_2 = -7$	ب) $\min_{x \in U} \begin{cases} \frac{-b}{2a} = \frac{-4}{2} = -2 \times \\ (-2)^2 + 4(-2) + 1 = -3 \end{cases}$ منفرد $t_1 = 6$	6		
منفرد $-4, -2, -1, -2, -4$ $r = 2a$ $a = 1$ $c = k$ $b = -4$ $r + 0 + 1 = -4 \rightarrow b = -4 - 1 = -5$	$n^2 - 4n + 1$ $t_{10} = 10^2 - 4(10) + 1 = 61$	7		
منفرد $(-1) - 4, -1, 1, 1$ $r = 2a$ $a = 2$ $c = -1$ $t_2 = (2^2 - 4(-1) + 1) = 9$ $c = -1$	$r(x)^2 + b + 1 = -5$ $-4 + 4 = -5$ $b = -1$	8		
..... $a > 2$	تساوی: $a + 4 = 2a + 1$ $a = 3$ $a > 3 \quad 2a + 1 > a + 4$	9		
الف) $\frac{100}{2} = 50$ $50 < 4 \leq \frac{100}{2} = 50$ 50	ب) $0 < 4 \leq 100 = \frac{100}{1}$ 100	ج) $0 < 4 \leq 100 = \frac{100}{1}$ 100	د) 100 اعداد 3 اعداد 100 $100 + 100 - 100 = 100$ 100	10