

۱) $3n^2 - 1 \Rightarrow t_1 = 2, t_2 = 11, t_3 = 24, t_4 = 47, t_5 = 74$ $2, 11, 24, 47, 74, \dots$ ۲) $\frac{2n+1}{n+4} \Rightarrow t_1 = \frac{3}{5}, t_2 = \frac{5}{9}, t_3 = \frac{7}{13}, t_4 = \frac{9}{17}, t_5 = \frac{11}{21}$ $\frac{3}{5}, \frac{5}{9}, \frac{7}{13}, \frac{9}{17}, \frac{11}{21}, \dots$	۱
۱) $\frac{(-1)^n}{\sqrt{n+2}} \Rightarrow t_{13} = \frac{(-1)^{13}}{\sqrt{13+2}} = \boxed{\frac{-1}{4}}$ ۲) $2n - \left[\frac{n}{2}\right] \Rightarrow t_{13} = 24 - \left[\frac{13}{2}\right] \Rightarrow 24 - 6 = \boxed{18}$	۲
۱) $2n - 10 \Rightarrow t_1, t_2, t_3, t_4 \Rightarrow \boxed{f}$ ۲) $n^2 - 1 \leq n + 40 \Rightarrow t_5, t_4, t_3, t_2, t_1 \Rightarrow \boxed{5}$	۳
۱) $2n - 19 \Rightarrow t_1, t_2 \Rightarrow 9 - 1 \Rightarrow \boxed{8}$ ۲) $n^2 - 1 \leq n + 24 \Rightarrow t_1, t_2 \Rightarrow t_3, t_4, t_5, t_6, t_7, t_8, t_9 \Rightarrow \boxed{9}$	۴
$t_4 = 5$ $t_9 = 22 \Rightarrow t_4 + 5d = 22 \Rightarrow 5 + 5d = 22 \Rightarrow 5d = 17 \Rightarrow d = 3.4$ $5 - 3 = \boxed{2}$	۵

