

سوال ۱۰

$$-4, -2, 0, \dots$$

$$+2, +2, \dots$$

$$\begin{aligned} 1a &= 2 \\ a &= 1 \end{aligned}$$

$$1a + b = 2 \Rightarrow b = -1$$

$$t_n = n^2 - n - 4$$

مجموعه $\Rightarrow -4$

$$\begin{aligned} t_r &= 31 \\ t_r &= 41 \end{aligned}$$

$$d = 10$$

$$t_r = a + d(r-1) = 31 \Rightarrow a = 21$$

$$b_n = 8(n-1) + 21$$

$$8n + 17 = n^2 - n - 4 \Rightarrow n^2 - 9n - 21 = 0 \Rightarrow (n-9)(n+3) = 0$$

$$\begin{aligned} n &= 9 \\ n &= -3 \end{aligned}$$

عقب