

نام و نام خانوادگی پارسا اکبر پاسخنامه تشریحی تکلیف شماره ۱۳۳ کلاس دهم، پایه ریاضی ۱

$$5, 9, 13, 17, \dots \Rightarrow \boxed{4n+1} \quad 4 \times 10 + 1 = \boxed{41}$$

(۲)

$$4, 10, 16, 22, \dots \Rightarrow 4n+2 \quad \frac{n}{2} (2a_1 + (n-1)d) \Rightarrow \frac{10}{2} (2 \times 4 + (10-1) \times 6)$$

$$= \boxed{250} \quad \text{جمله هفتم } 4 \times 7 + 2 = 30$$

$$\Rightarrow \frac{10}{2} (2 \times 4 + (10-1) \times 6) - \frac{10}{2} (2 \times 4 + (10-1) \times 6) = 210 - 140 = 70$$

(۲)

$$1+\sqrt{3}, 2, 3-\sqrt{3} \quad 1-\sqrt{3}+2\sqrt{3}$$

$$\Rightarrow \left. \begin{aligned} 2^2 - 2\sqrt{3} + 2\sqrt{3} &= 2^2 - 2\sqrt{3} \\ 2^2 - 2\sqrt{3} + 2\sqrt{3} &= 2^2 - 2\sqrt{3} \end{aligned} \right\} \begin{aligned} 2^2 - 2\sqrt{3} - 2^2 + 2\sqrt{3} &= 2 - 2\sqrt{3} \\ 2^2 - 2\sqrt{3} + 2\sqrt{3} &= 2^2 - 2\sqrt{3} \end{aligned}$$

(۲)

$$b_1 - b_2 = b_2 - b_3 \quad 2-x = y - \frac{1}{2}x + \frac{1}{2}y = \frac{1}{2} \quad a_1 = \omega^x \quad a_2 = \omega^{2x} \quad a_3 = \omega^y$$

$$a_2 = \omega^{2x} = \omega^2 = \omega^2 \quad a_2 - a_1 = a_3 - a_2 \Rightarrow \omega^{2x} - \omega^2 = \omega^y - \omega^{2x}$$

$$\Rightarrow \omega^{2x} = \omega^2 \Rightarrow 1+2x = 2 \Rightarrow 2x = 1 \Rightarrow x = \frac{1}{2}$$

$$y = 2 \times \frac{1}{2} + 1 = 2 \Rightarrow xy = 1 \times 2 = 2$$

(۲)

$$2x-5, 2x-1, 6x \Rightarrow 2x-1 = \frac{2x-5+6x}{2} \Rightarrow 2x-1 = 4x-5 \Rightarrow x = \frac{1}{2}$$

$$-2, 0, 2 \Rightarrow t_2 = 4$$

(۲)

$\omega, \omega, \sqrt{\quad} \quad \neq n+1$ $\sqrt{\quad}, \omega, \Lambda \quad \neq n-1$ $\omega, 11, 14, \sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}$	 $\frac{100}{100} \checkmark$	 γ	6
$a_n = a_1 + (n-1)d$ $a_1 + a_1 + d + a_1 + 2d = 11 \Rightarrow a_1 + 3d = 11 \Rightarrow a_1 + d = 11 - (a_1 + 2d) - (a_1 + d)$ $= 11 - 3d - 2d = 11 - 5d \Rightarrow a_1 + d = 11 - 5d \Rightarrow a_1 = 11 - 6d$ $\frac{a_1 - a_1 + d}{d} = \frac{11 - 6d - 11 + 6d}{-6d} = \frac{0}{-6d} = 0$	 $a_1 + a_1 + d + a_1 + 2d = 11$ $a_1 + 3d = 11$ $a_1 + d = 11 - 2d$ $a_1 = 11 - 3d$	$11/10$	7
$a-d + a + a+d = 1d \Rightarrow a = d$ $\omega + (10-1) \times \sqrt{\quad} = 11$ $a_{10} = a_1 + 9d$ $a_{10} = \omega + 9\sqrt{\quad} = 19$	$a_1 + d + a_1 + 2d = 11$ $\Rightarrow 2a_1 + 3d = 11$ $2a_1 + 3d = 11$ $2a_1 + 3d = 11$ $2a_1 + 3d = 11$	$11/10$	8
$s_n = \frac{n}{2} (2a_1 + (n-1)d) = \frac{n}{2} (2a_1 + (n-1)d)$ $\Rightarrow 2a_1 + (n-1)d = 2(a_1 + \frac{(n-1)d}{2})$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$	$s_n = \frac{n}{2} (2a_1 + (n-1)d) = \frac{n}{2} (2a_1 + (n-1)d)$ $\Rightarrow 2a_1 + (n-1)d = 2(a_1 + \frac{(n-1)d}{2})$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$ $\Rightarrow 2a_1 + (n-1)d = 2a_1 + (n-1)d$	$11/10$	9
$t_v - t_i = 9d = 11 \Rightarrow d = \frac{11}{9} \Rightarrow t_e = 11$ $\sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}, 11, 13$	$t_v - t_i = 9d = 11 \Rightarrow d = \frac{11}{9} \Rightarrow t_e = 11$ $\sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}, \sqrt{\quad}, 11, 13$	γ	10