

نام و نام خانوادگی کلاس شماره پاسنامه تشریحی تکلیف شماره ۱۲

$$\underbrace{5, 9, 13, 17}_{\begin{smallmatrix} 4 & 4 & 4 \end{smallmatrix}}$$

$$a_n = 4n + 1$$

(الف)

$$t_{10} = 40 + 1 = 41$$

(ب)

$$\underbrace{1, 14, 11}_{\begin{smallmatrix} 2 & 4 & 4 \end{smallmatrix}}$$

$$a_n = 4n + 2 \quad a_{10} = 42$$

$$a_1 = 6$$

$$d = 4$$

$$s_{10} = \frac{10}{2} (6 + 42) = 240$$

$$a_{28} = 114$$

$$a_{28} = 128 + 2 = 130$$

$$s_{28} = \frac{28}{2} (6 + 130) = 2174$$

$$s_{28} = \frac{28}{2} (6 + 114) = 1610$$

$$2174 - 1610 = 564$$

$$\underbrace{1 + \sqrt{3}, 2, 3 - \sqrt{3}}_{\begin{smallmatrix} d & d \end{smallmatrix}}$$

$$t_{12} - t_1 = 2d$$

$$3 - \sqrt{3} - 1 - \sqrt{3} = 2 - 2\sqrt{3}$$

$$t_{23} = a + 22d$$

$$t_{25} = a + 24d$$

$$t_{25} - t_{23} = 2d$$

$$a_n = 5^{2n}, 3 \times 25^n, 5^y$$

$$b_n = x, y, y$$

$$5^y = 5^{x-2}$$

$$x = y + 2$$

$$y = x - 2$$

$$xy = 1 \times 3 = 3$$

$$3 \times 25 = \frac{5^{x-2} \times 5^{x-2}}{2}$$

$$4 \times 25 = 5^{x-2} \times 5^{x-2}$$

$$4 \times 25 = 5^{2x-4}$$

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$$t_x = -3 + 3(3)$$

$$t_x = 6$$

$$d = 3$$

$$2(2n-1) = 2n-5 + 4n$$

$$4n-2 = 6n-5$$

$$2 = 2n$$

$$\frac{1}{2} = n$$

