

Subject:

Date:

19

سأستبرئها



Mo Tu We Th Fr Sa Su

$$t_n = 5, 9, 13, 17, \dots$$

$\xrightarrow{+4} \quad \xrightarrow{+4} \quad \xrightarrow{+4}$

(سؤال 1)

الف) t_{n+1}

(2)

$$t_{n+1}$$

$$5 + 1 = 6$$

(1)

$$t_n = 5, 9, 13, 17, \dots$$

$\xrightarrow{+4} \quad \xrightarrow{+4} \quad \xrightarrow{+4}$

$$\frac{1}{4} (42 + 4) = 11 \Rightarrow 11 \times 4 = 44$$

(سؤال 2) الف) t_{n+1} ب) t_{n+1}

قسمت ب؟ ب)

$$a_{29} + a_{30} + a_{31} + a_{32} = 2(a_{30} + a_{31})$$

$$t_{n+1} \Rightarrow 41 + 2 = 43 \quad 2(41 + 49) = 180$$

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

(سؤال 3)

$$d = 2 - (1 + \sqrt{3}) = 1 - \sqrt{3}$$

$$(1 - \sqrt{3})n + 2\sqrt{3}$$

(2)

$$a_{22} = 22(1 - \sqrt{3}) + 2\sqrt{3} \Rightarrow 22 - 20\sqrt{3}$$

$$a_{25} = 25(1 - \sqrt{3}) + 2\sqrt{3} \Rightarrow 25 - 23\sqrt{3}$$

(سؤال 4)

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

$$b_n = n, 2, y \quad y - 2 = 2 - n \quad y + n = 4 \quad n = 4 - y$$

$$3 \times 5^{2n} - 5^{2n} = 5^y - 3 \times 5^{2n}$$

$$3 \times 5^{2n} = 5^y - 3 \times 5^{2n} \Rightarrow 5^y = 5^{2n} (3 + 3) \Rightarrow 5^y = 5^{2n+1}$$

$$y = 2n + 1 \Rightarrow y = 1 - 2y + 1 \quad 3y = 9 \quad y = 3 \quad n = 1$$

$$2y = 3$$

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$$-r \quad +r \quad +r \quad +r$$

$$r_n - r, r_n - 1, q_n, \textcircled{q} \dots$$

سوال ۱۵

$$\frac{(r_n - r) + q_n}{r} = r_n - 1$$

$$r_n - r = r_n - r$$

$$r - r = r_n - r \rightarrow r_n = r$$

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

$$r \times \frac{1}{r} - r = -r$$

$$r \times \frac{1}{r} - 1 = 0$$

$$q \times \frac{1}{r} = r$$

$$a_r = q$$

$$a_n = r, a, V$$

$$r_{n+1}$$

$$r \times r + 1 = r_1$$

سوال ۱۶

$$b_n = r, a, \Lambda, \dots$$

$$r_{n-1}$$

$$r \times r - 1 = aq$$

$$\frac{a \times 11 \times 14 \times 22 \times \dots \times r_1}{q_{n-1}}$$

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$$a_1 + a_r + a_r = r_1$$

$$a_1 + a_1 + d + a_1 + r d = r_1$$

سوال ۱۷

$$r a_1 + r d = r_1$$

$$a_1 + a_1 + r d + a_1 + r d = 1.5$$

$$r a_1 + 4 d = 1.5$$

$$-r d = -1.5$$

$$a_r = a_r + a_1$$

$$d = r \Lambda \quad a_1 = -r_1$$

$$a_1 + r d = a_1 + d + a_1 = a_1 + d = V$$

$$\frac{r_1}{V} = -\frac{1}{r}$$

$$a_1 + a_1 + d + a_1 + r d = 1.5 \Rightarrow r \times r a_1 + r d = 1.5$$

$$a_1 + r d + a_1 + r d = r a_1 \Rightarrow r \times r a_1 + r d = r a_1$$

$$a_1 = a_1 + r d = r + r V = r q$$

سوال ۱۸

$$a a_1 + 4 d = r$$

$$-4 a_1 + r d = V a$$

$$-1.5 d = -r a$$

PINE NOTEBOOK

$$d = r$$

$$a_1 = r$$

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ب.د: $\frac{a_r}{a_v} = \frac{39a_1}{13a_1} = 3$ $a_r = a_1 + 2d$ $a_9 = a_1 + 8d$
 $9(a_1 + a_9) = 9 \times 3(a_1 + a_r)$ $9(a_1 + a_1 + 8d) = 27(a_1 + a_1 + 2d)$

$\frac{9}{2}(a_1 + a_9) = \frac{27}{2}(a_1 + a_r)$ $18a_1 + 72d = 54a_1 + 54d$ (سوال 9)

$2 \times (\frac{9}{2}(a_1 + a_9) = \frac{27}{2}(a_1 + a_r))$ $18d = 36a_1 \Rightarrow d = 2a_1$

$9(a_1 + a_9) = 27(a_1 + a_r)$

$a_v = a_1 + 4d = 13a_1$

$a_r = a_1 + 19d = 39a_1$

$a_1 = 11$

$a_n = 11n + 22$

$a_v = 33$ $\frac{11}{1} + 9d = 33$ $d = 4$ $a_8 = 11 \times 8 + 22 = 110$

$\frac{11}{1} \quad \frac{11}{2} \quad \frac{11}{3} \quad \frac{11}{4} \quad \frac{11}{5} \quad \frac{11}{6}$
 $a_1 \quad a_2 \quad a_3 \quad a_4 \quad a_5 \quad a_6$

سوال 10

$a_1 + 3d = 23$ $d = -1$