

Subject:

Date:

السبت ١٠/١٠/٢٠٢٠



Mo Tu We Th Fr Sa Su

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

$$\begin{array}{cccc} & \xrightarrow{+4} & \xrightarrow{+4} & \xrightarrow{+4} \\ & 1 & 2 & 3 \end{array}$$

سؤال (١)

الف) t_{n+1}

$$t_{n+1}$$

$$t_{n+1} = 17 + 4 = 21$$

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

$$\begin{array}{ccc} & \xrightarrow{+4} & \xrightarrow{+4} \\ & 1 & 2 \end{array}$$

$$\frac{1}{4} (42 + 4) = 12 \Rightarrow 12 \times 2 = 24$$

سؤال (٢)

ب)

$$t_{n+2} \Rightarrow 21 + 2 = 23$$

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

سؤال (٣)

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

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

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

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

سؤال (٤)

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

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

$$3 \times 2^n - 2^n = 2^y - 3 \times 2^n$$

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

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

$$2y = 3 \quad \text{جواب}$$

Subject:

Date:



Mo Tu We Th Fr Sa Su

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

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

سوال ۱۵

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

$$r_n - r = r_n - r$$

$$r - r = r_n - r \Rightarrow r_n = r$$

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

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

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

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

$$a_r = q$$

$$a_n = r, a, V$$

$$r_{n+1}$$

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

سوال ۱۶

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

$$r_{n-1}$$

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

$$a = 11, 14, 17, 20, \dots, r_1$$

$$q_{n-1}$$

$$1, 2, 3, 4, 5, \dots, r_1$$

$$a_1 + a_r + a_r = r_1$$

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

سوال ۱۷

$$r a_1 + r d = r_1$$

$$a_1 + a_1 + r d + a_1 + r d = 1. \Delta$$

$$r a_1 + 4 d = 1. \Delta$$

$$-r d = -1. \Delta$$

$$a_r = a_r + a_1$$

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

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

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

$$a_1 + a_1 + d + a_1 + r d = 10 \Rightarrow r \times r a_1 + r d = 10$$

سوال ۱۸

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

$$4 a_1 + 4 d = r$$

$$-4 a_1 + r d = r \Delta$$

$$a_1 = a_1 + 4 d = r + r V = r_1$$

$$-10 d = -r \Delta$$

PINE
NOTEBOOK

$$d = r$$

$$a_1 = r$$

Subject:
Date:

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

$\frac{9}{2}(a_1 + a_9) = 9 \times \frac{3}{2}(a_1 + a_r)$ $18a_1 + 72d = 27a_1 + 54d$ (سوال 9)

$2 \times (\frac{9}{2}(a_1 + a_9) = \frac{27}{2}(a_1 + a_r))$ $18d = 39a_1 \Rightarrow d = \frac{13}{6}a_1$

$9(a_1 + a_9) = 27(a_1 + a_r)$ $a_v = a_1 + 4d = 13a_1$
 $a_r = a_1 + 2d = 39a_1$

$a_1 = 11$

$a_n = 5n + 7$

$a_v = 3a$ $\frac{11}{9} + 9d = 3a$ $d = 5$ $a_5 = 5 \times 5 + 7 = 22$

$\frac{-a}{18} \quad \frac{-a}{12} \quad \frac{-a}{24} \quad \frac{-a}{12} \quad \frac{-a}{18}$
 $a_1 \quad a_r \quad a_r \quad a_5 \quad a_5 \quad a_9$

جواب: 10، 22، 34

$\frac{a_1 + 3d}{18} = 22$ $d = -5$