

٢٥

سینا فاضلی

Page: ()

SUBJECT:

Year:

Month:

Day:

$$a_n = f_{n+1} \quad \checkmark \quad a_n = \Delta + (n-1) \times f \quad (2) \text{ الف 1}$$

$$a_{10} = f \times 10 + 1 = (51) \quad \checkmark \quad (3)$$

$$S_{10} = \Delta (9 \times 9 + 9 \times f) = (250) \quad \checkmark \quad (2) \text{ الف 2}$$

$$a_{19} + a_{18} + a_{17} + a_{16} \quad (3)$$

$$S_4 = 4 (2a_{19} + (4-1) \times f) \rightarrow S_4 = 4 (2 \times 118 + 3 \times f) = (596) \quad \checkmark$$

$$a_{19} = \frac{118}{9} \times 9 + 1 = 118$$

$$a_{10} - a_{19} = a_1 - a_1 \quad (2) \text{ ب}$$

$$a_{10} - a_{19} = 1 - \sqrt{r} - (1 + \sqrt{r}) \rightarrow a_{10} - a_{19} = 1 - 2\sqrt{r} \quad \checkmark$$

$$a_n = \Delta + \Delta = 2 \times \Delta \quad \Delta + \Delta = 4 \times \Delta \quad (2) \text{ ب}$$

$$\Delta = 4 \times \Delta - \Delta \rightarrow \Delta = \Delta (4-1) \rightarrow \Delta = \Delta \times 3 \quad \Delta = \Delta$$

$$b_n = x, y \rightarrow \frac{x+y}{2} = r \rightarrow x+y = f \quad \Delta^{f-x} = \Delta^{r-x+1}$$

$$y = f - x$$

$$f - x = 2x + 1$$

$$f = 2x \rightarrow x = 1 \quad \checkmark \quad y = 1 \quad \checkmark \quad (x, y) = (1, 1) \quad \checkmark$$



SUBJECT:

Year:

Month:

Day:

Page: ()

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

$$a_5 = (4 - 5)$$

2

$$= 2x - 1$$

$$\rightarrow 1x - 5 = 5x - 2$$

$$5x = 2$$

$$x = \frac{2}{5}$$

(2)

$$-3, 0, 3, 6$$

$$: 5, 11, 17, 23, \dots$$

$$V \text{ مبداء متحرك}$$

$$a_r = 2 \times 2 + 1 = 5$$

$$\rightarrow \frac{5 - 5}{5} + 1 = 1$$

$$b_r = 3 \times 2 - 1 = 5$$

(2)

$$a_1 + a_r + a_p = 21$$

$$a_1 + a_r$$

$$35 - V - 21 = V$$

(2) - V

$$3a_r = 21 \rightarrow a_r = 7$$

$$a_1 + a_r + a_p = 10$$

$$a_1 + a_r$$

$$\frac{V}{-21} = -\frac{1}{21}$$

$$3a_p = 10 \rightarrow a_p = \frac{10}{3}$$

$$a_1 = -21$$

$$a_1 + a_r + a_p = 10$$

$$a_1 + a_r$$

$$\frac{a_r + a_p}{a_1 + a_r + a_p + a_5 + a_8} = 5$$

(2) - 1

$$3a_r = 10$$

$$a_r = \frac{10}{3}$$

$$5a_r = 5 \rightarrow a_r = 1$$

$$a_1 = 2$$

$$a_5 + a_8 = 25$$

$$a_{10} = 2 + 9 \times 3 \rightarrow a_{10} = 29$$

سینا کاظمی

Page: ()

SUBJECT:

Year:

Month:

Day:

$$S_9 = 4 S_{10} \rightarrow \frac{9}{2} (2a + 1d) = 4 \cdot \frac{10}{2} (2a + 2d) \quad (2) \quad -9$$

$$9a + 45d = 40a + 40d$$

$$9d = 31a$$

$$d = \frac{31a}{9}$$

$$\frac{a_{10}}{a_1} \rightarrow \frac{a + 9d}{a} = \frac{a + 9 \cdot \frac{31a}{9}}{a} = \frac{a + 31a}{a} = \frac{32a}{a} = 32 \quad (3) \quad \checkmark$$

$$a_1 = 11$$

$$a_{10} = 352$$

✓ (11, 352)

$$a_5 = \frac{11 + 352}{2} = 181.5$$

مجموعہ

11, 352

$$10d = 341 \rightarrow d = 34.1$$

$$a_1 = 11$$

11

11, 22, 33, 44