

$$a_n = f_{n+1} \quad | \quad a_n = d + (n-1) \times f \quad (1 - \text{الف})$$

$$a_{10} = f \times 10 + 1 = (51) \quad (2 - \text{ب})$$

$$S_{10} = d(4 \times 9 + 9 \times f) = (240) \quad (2 - \text{الف})$$

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

$$S_4 = 4(2a_{19} + (4-1) \times f) \rightarrow S_4 = 4(2 \times 111 + 3 \times f) = (496)$$

$$a_{19} = \frac{116}{4} \times 4 + 2 = 118$$

$$a_{10} - a_{19} = a_1 - a_{10} \quad (4 - \text{ب})$$

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

$$a_n = d + d = 2 \times d \quad | \quad d + d = 2 \times d$$

$$d = 2 \times d - d \rightarrow d = d(2-1) \rightarrow d = d \times 1$$

$$b_n = x, y \rightarrow \frac{x+y}{2} = 2 \rightarrow x+y = 4$$

$$y = 4 - x$$

$$4 - x = 2x + 1$$

$$3 = 3x \rightarrow x = 1$$

$$y = 3$$

$$xy = 3$$



SUBJECT:

Year:

Month:

Day:

Page: ()

$$4x + 2u - 5$$

2

$$= 2u - 1$$

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

$$5u = 2$$

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

$$-3, 0, 2, 4$$

$$a_5 = (9) - 1$$

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

$$-6 \quad \text{مقدار 7}$$

$$a_2 = 2 \times 2 + 1 = 5$$

$$\rightarrow \frac{5-1}{5} + 1 = 2$$

$$b_2 = 3 \times 2 - 1 = 5$$

$$a_1 + a_2 + a_3 = 21$$

$$a_1 + a_2$$

$$3a - 2 - 21 = 2$$

$$3a_2 = 24 \rightarrow a_2 = 8$$

$$a_1 + a_2 + a_3 = 10$$

$$a_2 + a_3$$

$$3a_3 = 10 \rightarrow a_3 = \frac{10}{3}$$

$$a_1 = -1$$

$$a_1 + a_2 + a_3 = 10$$

$$a_2 + a_3$$

$$a_1 + a_2 + a_3 + a_4 + a_5 = 5$$

$$3a_2 = 10$$

$$a_2 = \frac{10}{3}$$

$$3a_3 = 5 \rightarrow a_3 = \frac{5}{3}$$

$$a_1 = 2$$

$$a_5 + a_6 = 25$$

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

سینا کاظمی

Page: ()

SUBJECT:

Year:

Month:

Day:

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

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

$$9d = 31a$$

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

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

$$a_{10} = 11$$

$$a_1 = 32$$

1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 91, 94, 97, 100

$$a_5 = \frac{11 + 32}{2} = 21.5$$

مجموعہ

1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 91, 94, 97, 100

$$10d = 21 \rightarrow d = 2.1$$

$$a_1 = 2$$

1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 91, 94, 97, 100

19, 23, 27, 31