

A دهم دضرت

12 1A

الصفحة الأولى، ص 1

0, 9, 12, 15
2 2 2

r_{n+1}

$$r(1) + 1 = 61$$

الف
ب

$$s_n = \frac{n}{r} (ra + (n-1)d) = \frac{1}{r} (12 + (9)2) = 25$$

$$r \times 1 = 22 \rightarrow 22 + 22 + 22 + 22 + 22$$

$$(n+2) \rightarrow r(29) + 2 = 118, 112, 106, 100$$

$$1 + \sqrt{r}, 2, r - \sqrt{r}$$

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

$$\begin{aligned} 22 \mid \rightarrow (1 - \sqrt{r})22 + 2\sqrt{r} &= 22 - 22\sqrt{r} + 2\sqrt{r} = 22 - 20\sqrt{r} \\ 20 \mid \rightarrow (1 - \sqrt{r})20 + 2\sqrt{r} &= 20 - 20\sqrt{r} + 2\sqrt{r} = 20 - 18\sqrt{r} \end{aligned} \left. \vphantom{\begin{aligned} 22 \mid \rightarrow (1 - \sqrt{r})22 + 2\sqrt{r} &= 22 - 22\sqrt{r} + 2\sqrt{r} = 22 - 20\sqrt{r} \\ 20 \mid \rightarrow (1 - \sqrt{r})20 + 2\sqrt{r} &= 20 - 20\sqrt{r} + 2\sqrt{r} = 20 - 18\sqrt{r} \end{aligned}} \right\} 2 - 2\sqrt{r}$$

$$l \rightarrow r \text{ and } = 22 \text{ and } + 2(1 - \sqrt{r})$$

$$a_n = a, r \times a^n, a^y \rightarrow \underbrace{a, r \times a^n}_{+ r \times a^n} + r \times a^n$$

$$a \times a = a \rightarrow a^{n+1} = a^y \rightarrow r_{n+1} = y$$

$$b_n = x, y, y$$

$$\rightarrow r - n = y - r$$

$$r = y + n$$

$$r_n - y = -1$$

$$n + y = 6$$

$$r_n = r$$

$$n = 1 \rightarrow y = 5$$

$$n y = r$$

$$r_n = 5, r_{n-1}, y_n$$

$$+ r + r$$

$$r\left(\frac{1}{r}\right) - 5 = -r$$

$$r_n + b = -r \rightarrow r + b = -r \quad b = -4$$

$$r_n - 1 + r = y_n$$

$$r_n + r = y_n$$

$$r = 5n$$

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

$$r_n - 4 \rightarrow r(1) - 4 = 4$$

$$a_n = 2, 5, 8, \dots$$

$$b_n = 1, 5, 9, \dots$$

$$a + (n-1)d < 41$$

$$b + (n-1)d < 59$$

$$a_1 = 2n+1$$

$$a_1 = 2n-1$$

$$a_1 = 2n-1$$

$$a_2 = 4$$

$$a_2 = 5$$

$$4n-1 < 41 \quad (\text{پس } 7 \text{ جہد } 3 \text{ جہد })$$

$$4n < 42$$

$$n < 10.5$$

$$a-d+a+a+d=21$$

$$2a=21 \quad a=10.5 \quad \checkmark \quad \text{e.g.}$$

$$a_1+a_1+rd+a_1+rd=1.5$$

$$3a_1+2d=1.5$$

$$21+2d=1.5$$

$$2d=1.5-21 \rightarrow d=-9.75$$

$$a_1+a_2+a_3=2a_2=10 \rightarrow a_2=5$$

$$a_2-a_1=d \rightarrow 5-10=-5=d \rightarrow \frac{v}{-r_1}=\frac{1}{-5}$$

$$a_2-a_1+a_1=a_1+rd-a_1-d+a_1$$

$$a_1+d=10+10=20$$

$$\frac{21}{5}=4.2$$

$$e.g.$$

$$a-d+a+a+d=10 \rightarrow 2a=10 \rightarrow a=5$$

$$a+rd+a+rd=10$$

$$2a+2d=10$$

$$10+2d=10 \rightarrow d=0$$

$$2n-1 \rightarrow 2(10)-1=19$$

$$\frac{S_9}{S_7} = \frac{9}{7} \rightarrow \frac{\frac{9}{2}(2a_1+(8)d)}{\frac{7}{2}(2a_1+(6)d)} = \frac{9a_1+36d}{7a_1+21d} = \frac{9}{7} \rightarrow 7(9a_1+36d)=9(7a_1+21d)$$

$$63a_1+252d=63a_1+189d$$

$$63a_1=63d$$

$$\frac{a_2}{a_1} = \frac{a_1+19d}{a_1+7d} = \frac{a_1+19(2a_1)}{a_1+7(2a_1)} = \frac{a_1+38a_1}{a_1+14a_1} = \frac{39a_1}{15a_1} = \frac{13}{5}$$

$$19 \times 2 = 38$$

$$2-1$$

$$\frac{20-11}{4} = \frac{9}{4} = 2.25 = d$$

$$2n+1$$

$$2(n)+1=23$$

$$21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$

$$\frac{22-21}{1} = \frac{1}{1} = 1$$

$$(17) \rightarrow 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$