

سینا کا مکتبہ

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$$a_1 = 8$$

(20) - 1

$$a_8 = 41 \rightarrow r d = r 1$$

$$d = v \rightarrow a_n = 8 + (n-1) \times v$$

$$20 \cdot 8 = 8 + (n-1) \times v$$

$$168 = v(n-1) \rightarrow n-1 = 28$$

$$n = 29$$

$$1, 1/2, 1/4, 1/8, \dots, 1/256$$

(129) - 2

$$a_n = 1/n + r$$

$$99 \cdot 1/256 - 1 \cdot 1 + r = 129$$

$$a_{1/8} + a_{1/4} + a_{1/2} = -5 \times 1/8 + 12$$

$$r a_n$$

- 3

$$r a_{1/8} + a_{1/8} = -5/8$$

$$r a_{1/8} = -5/8$$

$$a_{1/8} = -5/8r$$

$$a_{1/4} + a_{1/2} + a_1 = -5 \times 1/4 + 12$$

$$r a_{1/4} + a_{1/4} = -5/4$$

$$r a_{1/4} = -5/4$$

$$a_{1/4} = -5/4r$$

$$a_{1/8} + a_{1/4} = -5/8r - 5/4r = -15/8r$$

$$a_r = r^{-1}$$

$$a_1 = r^1 \rightarrow \frac{r^{-1} + r^1}{r} = r \rightarrow r^{-1} + r^1 - r = r^1 \times r^{n+1}$$

$$a_{1/r} = r^{-r}$$

$$r^n (1 + r^n) - r = r^{n+1} \rightarrow r^n (1 + r^n) - r = r^{n+1}$$

$$r^n (1 + r^n) = r^{n+1} + r \rightarrow r^n (1 + r^n) = r^{n+1} + r^1$$

$$r^n (1 + r^n) = r^1 (r^n + 1) \rightarrow r^n = r^1 \rightarrow n = 1$$

$$R43 \quad r^{-1}, r^1, r^1$$

$$1/2, 1, 1 \rightarrow 1/2 + 1 + 1 = 2.5$$

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$$\left. \begin{aligned} a_{1,2} - a_{1,0} &= 5 \\ a_{1,2} + a_{1,0} &= 25 \end{aligned} \right\} \rightarrow$$

$$2a_{1,2} = 30 \rightarrow a_{1,2} = 15 \rightarrow 2d = 30 \rightarrow d = 15$$

$$a_{1,0} = 10$$

$$a_{2,1} = a_{1,0} + 11d \rightarrow a_{2,1} = 10 + 11 \times 15 = 166$$

$$\frac{d}{r}(2a_1 + 4d)$$

$$= \frac{1}{2} \rightarrow 2a_1 + 4d = 2a_1 + 4d$$

$$2a_1 + 12d = 2(a_1 + 6d) + 4d \rightarrow 2a_1 + 12d = 2a_1 + 16d$$

$$2a_1 = 4d$$

$$\frac{a_1}{a_1} = \frac{a+d}{a} \rightarrow \frac{a+d}{a} = \frac{a}{a}$$

$$\left\{ \begin{aligned} 2a_1 &= 4d \\ 2a_1 + 10 &= 2a_1 + 4d \end{aligned} \right\} \rightarrow d = 5$$

$$\left\{ \begin{aligned} 2a_1 &= 4d \\ 2a_1 + 10 &= 2a_1 + 4d \end{aligned} \right\} \rightarrow d = 5$$

$$\frac{2a_1 + 10 - (2a_1 + 4d)}{2a_1 + 10} = \frac{2a_1 + 10 - 2a_1 - 4d}{2a_1 + 10} = \frac{10 - 4d}{2a_1 + 10} = \frac{10 - 4 \times 5}{2a_1 + 10} = \frac{10 - 20}{2a_1 + 10} = \frac{-10}{2a_1 + 10}$$

$$d = \frac{2a_1 + 10 - 2a_1 - 4d}{2a_1 + 10} \rightarrow d = \frac{10 - 4d}{2a_1 + 10}$$

$$2a_1 + 10 - 11 \rightarrow 2a_1 + \frac{2a_1 + 10}{2a_1 + 10} = 11 \rightarrow \frac{2a_1 + 10}{2a_1 + 10} = 1$$

$$2a_1 + 10 = 2a_1 + 10$$

$$11 = 2a_1 \rightarrow 2a_1 = 11$$

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$$a_n + a_{n+r} = a_r + a_{1+r}$$

(3) $\frac{d}{dx}$ - 1.

نقطة: $n + n + r = r \rightarrow n = 1$

$$a_n = r a_{\frac{n}{r}} \rightarrow a_1 = r a_r \rightarrow a_1 + r d = r (a_1 + r d)$$

$$a_1 + (n'-1) \times d = 0$$

$$a_1 + r d = r a_1 + r^2 d$$

$$-r a_1 = r d \rightarrow a_1 = -d$$

$$\downarrow$$
$$-d + d n' - d = 0$$

$$-r d + d n = 0 \rightarrow d(-r + n) = 0 \rightarrow n = r$$