

سارا مقبول ہے

مسئلہ ۱

$$18 = 16x + x + \frac{1}{x} \quad 14 = 16x + x + \frac{1}{x}$$

$$\frac{1}{x} + 16 + 16x = 18 \quad \frac{1}{x} + 16 + 16x = 14$$

$$\frac{1}{x} = 2 - 32x$$

$$9 = 16 \quad 9 = 16$$

مسئلہ ۲

$$x^2 - 2x + 2 = x^2 + 16$$

$$(x^2 + 16)(x^2 - 2) = 16x^2 \quad x^2 - 2x^2 + 16x^2 - 16 = 16x^2$$

$$x^2 - 2x^2 + 16x^2 - 16 = 16x^2$$

$$x^2 = 16 \quad x = \pm 4$$

$$16x^2 - 16 = 16x^2$$

$$\sum_{i=1}^n \frac{1}{i} = \frac{1}{1} + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$$

مسئلہ ۳

$$S_n = \frac{1}{n} \times \frac{1}{n} = \frac{1}{n^2}$$

$$S_n = \frac{1}{n^2} \times \frac{1}{n} = \frac{1}{n^3}$$

Date

Subject

مسائل

A

1 0 0 0 0 9 f

 $a_{1,1} \quad a_v = 9f$

$$A \cdot a_e = a_1 + r^v d \Rightarrow 1 + r^v \times 1,10 = r^v \times 9f$$

$$\textcircled{a_1 + r^v d} = 9f$$

$$9d = 9f$$

$$d = 1,10$$

$$A + B = 1 + r^v \times 1,10$$

1 0 0 0 0 9 f

E.10

$$a_1 r^v \quad a_1 r^v = 9f$$

$$B = A \quad A + B = r^v \times 1,10 = r^v \times 9f$$

$$r^v = 9f \quad r = 1r$$

$$1 \times r^v = A$$

$$\frac{-10}{f} + r^v = \frac{1}{f} = d \quad a_{1,1} = a_1 + 1 \times \left(\frac{1}{f} \right) = r^v \quad \text{مسائل}$$

$$a_{1,1} = 1 \quad b_n = a_1 r^{n-1} \quad 1 = 1r \times r^v \quad r^v = \frac{1}{1r}$$

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

 $a_r \quad a_v \quad a_q$

مسائل

 $a_{1,1} \rightarrow r^v d \quad a_{1,1} + r^v d \quad a_{1,1} + r^v d$

$$(a_1 + r^v d) (a_1 + r^v d) = (a_1 + r^v d)^v = a_1^v + \underbrace{1 \times a_1 d + r^v d a_1 + 19 d^v}_{1 \cdot a_1 d} = a_1^v + r^v d a_1 + 19 d^v$$

$$0 = r^v a_1 d + r^v d^v$$

$$0 = r^v d (a_1 + 19 d) \quad a_1 = 19 d \quad d = \frac{a_1}{19}$$

$$d = 0$$

$$a_1 \quad a_2 \quad a_3 \quad a_1^r + \underbrace{r a_1 d + a_1 d + r d^r}_{\Delta a_1 d} = a_1^r + r d^r \quad \text{سوال 9}$$

$$a_1 + d \quad a_1 + 2d \quad a_1 + 3d$$

$$\downarrow$$

$$r d$$

$$\downarrow$$

$$r d$$

$$\downarrow$$

$$r d$$

$$\frac{r d}{r d} = r$$

$$r a_1 d - r d^r = 0$$

$$r d (a_1 - d) = 0$$

$$a_1 = d, \quad d = 0$$

$$a_1 = a q^q \Rightarrow \frac{1}{r} \times r^q = \frac{a q^q}{r} = 1 r a$$

$$r a_1 \quad r a_2 \quad a_1$$

سوال 9

$$r(a_1) \quad r(a_2) \quad a_1 q^r$$

$$r a_1 q^r = a (r q + q^r)$$

$$r q^r = r q + q^r$$

$$r q = r + q^r$$

$$q^r - r q + r = 0$$

$$q = \frac{r + \sqrt{r^2 - 4r}}{2} \quad \checkmark \quad r = r$$

$$r, \frac{1}{r}, \dots$$

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

$$a_n = -\frac{1}{r} n + r \frac{1}{r}$$

سوال 9

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

$$\begin{matrix} -1 & -0 & -10 \\ \uparrow & \uparrow & \uparrow \\ \frac{r-1}{r} + n & \frac{1}{r} + n & -1 + n \end{matrix}$$

$$a_n = -\frac{1}{r} \times n + \frac{r}{r} = 1 - \frac{n}{r}$$

$$a_{12} = -\frac{1}{r} \times 12 + \frac{r}{r} = -1$$

$$\begin{aligned} (-1+n) \left(\frac{r-1}{r} + n \right) &= \frac{1}{14} + n^2 + \frac{1}{r} n \\ -\frac{r-1}{r} - n + \frac{r-1}{r} n + r n^2 &= \frac{1}{14} + n^2 + \frac{1}{r} n \end{aligned}$$

$$-r + 1 + r = 0$$

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

$$\frac{1}{r} \left(\frac{r-1}{r} + n \right) = \frac{r-1}{r^2} + \frac{1}{r} n$$

Date

Subject

$$q_1 + a_1 f + a_1 v = v r$$

سؤال ٩

$$q = r$$

$$a_1 + a_1 q_1^r + a_1 q_1^u = v r$$

$$r a = v r \quad a = \frac{v r}{r}$$

$$r a_1 q_1^a = v r$$

$$a q_1^r = a_1 d \rightarrow \frac{v r}{r} - \frac{v r}{r} = d$$

$$d = 0$$