

$$t_n - t_{n-1} = \text{sol} \quad \text{sol} = \text{ld of } \sqrt{4}$$

(V)

$$\frac{(t_n - t_{n-1})(t_n + t_{n-1})}{t_n} = \text{sol} \rightarrow \text{ld of } \sqrt{4}$$

$$\frac{-1(1-4\sqrt{4}) + 1 + \sqrt{4}}{1+1} = \frac{-1 + 4\sqrt{4} + 1 + \sqrt{4}}{2} = \frac{5\sqrt{4}}{2} = \sqrt{4}$$

(A)

$$\frac{r_n - r}{r_{n+1} - r} = \frac{r_0}{r_n - r} = \text{sol} \quad a_1 = r \quad a_1 + \text{sol} = 11$$

(9)

$$10n = 11n - 9 \quad r_n = 9 \quad n = 9 \quad \frac{11n - 9}{10} = n$$

$$a_n + a_{n+1} = a_1 + a_{11} \Rightarrow n + n + d = 10 \Rightarrow n = 1$$

(10)

$$a_n = r a_1 \Rightarrow a_1 + r d = r(a_1 + r d) \Rightarrow d = -a_1$$

$$a_r = a_1 + d = a_1 + (-a_1) = 0$$

No. of terms