

B سروش اخوان، دهم پسر

تکلیف شماره ۱۳

Subject .

Year.

Month.

Day.

Subject

$$a_1 = \varepsilon, \quad a_2 = q_1, \quad q_1 - \varepsilon = r_1 = r_d$$

-1

$$z) \quad d = \frac{r_1}{r} = V \quad r_1 = \varepsilon \cdot (n-1) \cdot V$$

$$z) \quad 19\lambda = V(n-1) \quad z) \quad n-1 = 2\varepsilon \quad z) \quad \boxed{n = 28}$$

$$a_n = Vn + r \quad 1.1, 1.8, \dots, 99V$$

129 -2

$$\frac{99V - 1.1}{V} + 1 = 129$$

$$a_{19} + a_{10} + a_{11} = -9 \times 10 + 12 \quad z) \quad a_{19} + a_{10} + a_{11} = -VA \quad -3$$

$$a_{19} + a_{11} = 2a_{10} \quad z) \quad a_{19} + a_{10} + a_{11} = 3a_{10} \quad z) \quad a_{10} = \frac{-VA}{3} = -29$$

$$a_1 + a_8 + a_9 = -9 \times 9 + 12 \quad z) \quad a_1 + a_8 + a_9 = -28$$

$$a_1 + a_9 = 2a_8 \quad z) \quad a_1 + a_8 + a_9 = 3a_8 \quad z) \quad a_8 = \frac{-28}{3} = -\Lambda$$

$$a_{10} + a_8 = -29 - \Lambda = \boxed{-28}$$

28 -5

$$a_r = r^x - 1$$

$$a_{\Lambda} = r^{\Lambda+1} - 1 \quad z) \quad \frac{r^{\Lambda} - 1 + r^{\Lambda} - r^{\Lambda}}{r} = r^{\Lambda+1} \quad z) \quad \frac{r^{\Lambda} - r^{\Lambda}}{r} = r^{\Lambda+1}$$

$$a_{1r} = r^{\Lambda} - r^{\Lambda}$$

$$r^{\Lambda}(1+r^{\Lambda}) - \varepsilon = r^{\Lambda+1} \quad z) \quad r^{\Lambda}(1+r^{\Lambda}) - \varepsilon = r^{\Lambda+1}$$

$$r^{\Lambda}(1+r^{\Lambda}) = r^{\Lambda+1} + \varepsilon \quad z) \quad r^{\Lambda}(1+r^{\Lambda}) = r^{\Lambda+1} + r^{\Lambda}$$

$$r^{\Lambda}(1+r^{\Lambda}) = r^{\Lambda}(r^{\Lambda} + 1) \quad z) \quad r^{\Lambda} = r^{\Lambda} \quad z) \quad \Lambda = \Lambda$$

$$r^{\Lambda} - r^{\Lambda}, r^{\Lambda+1}, r^{\Lambda} - 1 \rightarrow 1, \Lambda, r^{\Lambda} \Rightarrow \boxed{1, \Lambda, r^{\Lambda}} \quad 28$$

Subject .

Year.

Month.

Day.

$$a_{1r} - a_{1i} = \delta$$

$$\Rightarrow r a_{1r} = r. \Rightarrow a_{1r} = 1$$

$$a_{1r} + a_{1i} = 2\delta$$

$$\Rightarrow a_{1i} = 1. \Rightarrow r d = \delta = d = \delta / r$$

$$a_{1i} = a_{1r} + 11d \Rightarrow a_{1i} = 1 + 11 \times \delta / r = \boxed{2\delta / r}$$

$$\frac{\delta / r (r a_{1i} + \delta d)}{\delta / r (r a_{1r} + \delta d)} = \frac{1}{r} \Rightarrow r a_{1i} + 11d = r a_{1r} + \delta d$$

$$\Rightarrow r a_{1i} + 11d = r (a_{1r} + \delta d) + \delta d \Rightarrow r a_{1i} + 11d = r a_{1r} + 11\delta d$$

$$r a_{1i} = r d \Rightarrow d = r a_{1i} \quad \frac{a_{1r}}{a_{1i}} = \frac{a + d}{a} \Rightarrow \frac{r d}{a} = \boxed{r}$$

$$t_a = t_{a+d}, t_q = t_{q+d} \Rightarrow d = \delta$$

$$t_q^r - t_{\delta}^r = (t_v + r d)^r - (t_v - r d)^r = (t_v + 1)^r - (t_v - 1)^r = \epsilon \cdot t_v$$

$$\Rightarrow \frac{\epsilon \cdot t_v}{t_v} = \boxed{\epsilon}$$

$$\frac{r + \sqrt{r} - (r (1 - q \sqrt{r}))}{1r + 1} = \frac{r + \sqrt{r} - r + 11\sqrt{r}}{1r} = \frac{11\sqrt{r}}{1r} = \boxed{\sqrt{r}} = 1$$

$$d = \frac{r r - r}{(\epsilon n - r) + 1} \Rightarrow d = \frac{r_0}{\epsilon n - r}$$

$$r + d n = 11 \Rightarrow r \frac{r \cdot n}{\epsilon n - r} = 11 \Rightarrow \frac{r \cdot n}{\epsilon n - r} = 9$$

$$\Rightarrow r \cdot n = 9 n = 11 \Rightarrow 11 = 9 n \Rightarrow n = \frac{11}{9} = \boxed{3}$$

Subject .

Year.

Month.

Day.

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

r CSMA

-1-

$$n+n+1 = r, \Rightarrow n = \frac{r-1}{2} \quad \left\{ \begin{array}{l} a_n = r a_{\frac{n}{r}} \Rightarrow a_1 = r a_{\frac{1}{r}} \end{array} \right.$$

$$\Rightarrow a_1 + r d = r(a_1 + r d) \Rightarrow a_1 + r d = r a_1 + r^2 d$$

$$\Rightarrow -r a_1 = r d \Rightarrow a_1 = -d$$

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

$$\Rightarrow -r d + d n' = 0 \Rightarrow d(-r + n') = 0 \Rightarrow n' = r$$