

$$\frac{a_y + d_v + a_n + d_q + a_{10}}{a_1 + d_r + d_p + a_s + d_o} = r \Rightarrow \frac{a_y(1 + \alpha + \beta + \gamma + \delta + \epsilon)}{a_1(1 + \alpha + \beta + \gamma + \delta + \epsilon)} = \frac{a_1 + \omega d}{a_1} = r \Rightarrow a_1 + \omega d = r a_1$$

$$r a_1 = \omega d \Rightarrow d = \frac{r a_1}{\omega}$$

$$r \times \omega a_p = \omega a_n \rightarrow r a_p = a_n$$

$$r(a_1 + r d) = a_1 + v d$$

$$r a_1 = d$$

$$\frac{a_y}{a_1} = \frac{a_1 + \frac{r a_1}{\omega}}{a_1} = \frac{r a_1}{\omega a_1} = \frac{r}{\omega}$$

$$\frac{a_y}{a_1} = \frac{a_1 + d}{a_1} = \frac{r a_1}{a_1} = r$$

$$\frac{t_n - t_{n-r}}{n - n + r} = \frac{\omega}{r} \Rightarrow \omega = \omega$$

$$t_p = t_1 + \omega \rightarrow t_1 = t_1 + \omega \rightarrow t_1 = \omega \rightarrow t_1 = \frac{\omega}{q} = \frac{\omega}{r}$$

$$\frac{(t_q - t_o)(t_q + t_o)}{t_v} = n d = 1 \cdot \omega = \frac{\omega}{r}$$

$$d = \frac{r \sqrt{r} - r + 1 \sqrt{r}}{1 \sqrt{r} + 1 \sqrt{r}} = \frac{1 \sqrt{r}}{1 \sqrt{r}} = \sqrt{r}$$

$$\alpha = \frac{r p - p}{r_n - r_1} = \frac{r_0}{r_n - r}$$

$$t_{n+1} = 11 \rightarrow p \cdot (n + \frac{r_0}{r_n - r}) = 11 \rightarrow \frac{r_0 n}{r_n - r} = 9 \rightarrow r_0 n = 9 r_n - 9 r \rightarrow r_0 n = 9 r_n - 9 r$$

$$p/n \text{ is } 1/2$$

$$n = r$$

$$t_n + t_{n+r} = t_{1v} + t_{1r} \rightarrow n + n + r = 1v + 1r \rightarrow r n + r = r_0 \rightarrow r n = r_0 \rightarrow n = 1$$

$$t_n = r t_f \rightarrow t_1 + v d + r t_1 + q d \rightarrow -r t_1 = r d \rightarrow -t = d \rightarrow d + t = 0 \rightarrow a_r = 0$$

~~$$a_r + t_{1v} + t_{1r} = t_{1v} + t_{1r} \rightarrow t_1 = t_1$$~~

نام و نام خانوادگی: ..... پاسخنامه تشریحی تکلیف شماره ۱۱۳ کلاس: ..... B

$$a_1 = 10, a_2 = 91, d = \frac{91 - 10}{2 - 1} = \frac{81}{1} = 81 \rightarrow a_n = 10 + (n-1)81 = 81n - 71$$

$$81n - 71 = 1000$$

$$81n = 1071$$

$$n = 13.223$$

✓

۲

$$a_n = 81n - 71 \rightarrow$$

$$1000 \leq 81n - 71 \leq 999 \rightarrow 1071 \leq 81n \leq 1070 \rightarrow 13.223 \leq n \leq 13.223$$

$$13.223 \rightarrow 13.223 - 13.223 = 0$$

۲

$$a_1 + a_2 + a_3 = 9 \rightarrow a_1 = 2 \rightarrow$$

$$a_1 + a_2 + a_3 = 9 \rightarrow a_1 = 2, a_2 = 2 \rightarrow a_3 = 5 \rightarrow a_4 = 8 \rightarrow a_5 = 11 \rightarrow a_6 = 14 \rightarrow a_7 = 17 \rightarrow a_8 = 20 \rightarrow a_9 = 23 \rightarrow a_{10} = 26$$

$$a_n = 2 + (n-1)3 = 3n - 1 \rightarrow a_{17} + a_{18} = 50 + 53 = 103$$

۲

$$\frac{2^x - 1 + 2^{x+1} - 2}{2} = 2^{x+1} - 2^x = 2^x \rightarrow x = 1 \rightarrow 2^1 - 1 + 2^2 - 2 = 2$$

$$a_1 + a_2 + a_3 = 2 + 4 + 8 = 14$$

۲

$$d = \frac{a_{12} - a_1}{12 - 1} = \frac{100 - 10}{11} = \frac{90}{11} \rightarrow 2a_1 + 2d = 100 \rightarrow 2a_1 = 100 - 2d = 100 - \frac{180}{11} = \frac{920 - 180}{11} = \frac{740}{11}$$

$$a_{11} = a_1 + 10d \rightarrow 100 + \frac{900}{11} = \frac{1090 + 900}{11} = \frac{1990}{11}$$

۲