

$\left. \begin{matrix} a_1 = \varepsilon \\ a_\varepsilon = \gamma \end{matrix} \right\} \Rightarrow d = \frac{\gamma - \varepsilon}{\varepsilon - 1} = V \Rightarrow a_n = Vn + \gamma$ $\gamma - 1 = Vn + \gamma$ $-1 = Vn$ $n = \frac{-1}{V}$ n = 20	۱
$1.1 \leq Vn + \gamma \leq 99V$ $1 \leq Vn \leq 99$ $1 \leq n \leq 100$ $1 + 100 + 1 = 102$ 102	۲
$a_{n+1} + a_{n+2} + a_{n+3} = -\gamma n + 12 \Rightarrow 3(a_{n+1}) = -\gamma n + 12$ $a_{n+1} + a_{n+2} = 2a_{n+1} \Rightarrow a_{n+2} = -\gamma n + 12$ $a_{11} + a_{11} = a_{11} + a_{11}$ $(-2(11) + \varepsilon) + (-2(11) + \varepsilon)$ $-44 + 2\varepsilon = -28$ -28	۳
$a_{11} - a_1 = a_1 - a_1$ $a_{11} = 2^x - 1$ $a_1 = 2^{x+1}$ $a_{11} = 2^{2x} - 1$ $2^{2x} - 1 = 2^x - 1$ $2^{2x} = 2^x$ $2^x = 2$ $x = 1$ $a_{11} + a_1 + a_{11}$ $2^x - 1 + 2^{x+1} + 2^x - 1 = 28$ $2^x - 1 + 2 + 1 + \varepsilon - 1 = 28$ 28	۴
$a_{11} - a_1 = 0 \Rightarrow 2d = \Delta$ $a_{11} + a_1 = 20 = a_1 + a_{11} = -110 + a_{11} = 20 \Rightarrow a_{11} = 120$ $20 + 120 = 140$ 140	۵

$$r_{g-1} = r \cdot r_0$$



$$\frac{d}{dt}(a_t + a_{t+1}) = r \left(\frac{d}{dt}(a_t + a_{t+1}) \right)$$

$$a_t + a_{t+1} = r(a_t + a_{t+1})$$

$$(a_t + a_{t+1}) + (a_{t+1} + a_{t+2}) = r(a_t + a_{t+1})$$

$$1 \cdot d = r a_t + r a_{t+1} \Rightarrow$$

$$1 \cdot d = \epsilon a_t + \lambda d \Rightarrow d = \epsilon a_t$$

$$a_t = r a_{t+1} \checkmark$$

$$t_q' - t_{\omega}' = (t_q - t_{\omega}) \left(\frac{t_q + t_{\omega}}{t_q + t_{\omega}} \right) = (t_q - t_{\omega}) \left(\frac{t_q + t_{\omega}}{t_q + t_{\omega}} \right) = \left[\frac{r}{t_q + t_{\omega}} \right]$$

$$\begin{aligned} & \frac{t_q - t_{\omega}}{t_q + t_{\omega}} \\ & \frac{t_q + t_{\omega}}{t_q + t_{\omega}} \end{aligned}$$

$$1 = r \rightarrow t_r = t_1 + 1 \cdot \omega \rightarrow d = \omega$$

$$t_q' - t_{\omega}' = (t_q - t_{\omega}) (t_q + t_{\omega})$$

$$t_q + t_{\omega} = t_v + t_v$$

$$(r t_v) (t_d)$$

$$= r(t_d) = r(t \times \omega) = \left[\frac{r}{t_v} \right]$$

بدلیل اینکه دینار با ریال است و هر عدد که عدد از آن عدد پیش خود بیاید است

$$d = \frac{r(1 - \sqrt{r}) - (1 - \sqrt{r})}{r+1} = \frac{r - 1 - r\sqrt{r} + \sqrt{r}}{r+1} = \frac{r - 1 - r\sqrt{r} + \sqrt{r}}{r+1} = \left[\frac{r - 1 - r\sqrt{r} + \sqrt{r}}{r+1} \right]$$



$$\frac{r r - r}{\epsilon_n - r_{t+1}} = d = \frac{11 - r}{n} \Rightarrow r_n = r r_{n-1} - 11$$

$$= \frac{r_n - 11}{n = r}$$



$$t_r + t_{iv} = t_n + t_{n+r} \Rightarrow \frac{r}{\lambda} = \frac{r}{n} + \epsilon$$

$$a_n = a_1 = r a_{\epsilon} = r a_{\frac{r}{n}}$$

$$a + v d = r a + q d$$

$$= r a + r d$$

$$= a + d$$

$$= a_r \checkmark$$

