

$$d = \frac{t_m - t_n}{m+n} \Rightarrow \frac{21}{25} = \frac{v}{100} \quad (1)$$

$$r_0 + v(n-1) \Rightarrow r_0 + vn - v = 2 \cdot n \Rightarrow n = \frac{v}{v-r_0} \quad (2)$$

$$\left\{ \begin{array}{l} 1.0.1 \rightarrow 99v \\ d = v \end{array} \right.$$

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$$n = \frac{t_m - t_n}{d} + 1 = \frac{997 - 1.0.1}{v} + 1 = 129 \quad (3)$$

$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 12 \Rightarrow 3a_{n+2} = -4n + 12 \quad (4)$$

$$\div 3 \Rightarrow a_{n+2} = -\frac{4}{3}n + 4 \Rightarrow a_1 + 2d = -\frac{4}{3} + 4 \Rightarrow a_1 + 2d = \frac{8}{3} \quad (5)$$

$$a_n = a_1 + (n-1)d \Rightarrow 0 + (n-1)d = -\frac{4}{3} \Rightarrow d = -\frac{4}{3(n-1)} \quad (6)$$

$$a_{12} = a_1 + 11d \Rightarrow -\frac{4}{3} = -\frac{4}{3} + 11d \Rightarrow d = 0 \quad (7)$$

$$r - r - r^{n+1} \Rightarrow r^{n+1} - r^{n+1} = 0 \Rightarrow r^{n+1} = r^{n+1} - r^{n+1} + r^{n+1} \Rightarrow r^{n+1} = r^{n+1} + r^{n+1} - r^{n+1} \quad (8)$$

$$\Rightarrow n = 2$$

$$r^2 - r + r + r - 1 = 0 \quad (9)$$

$$r^2 = r$$

$$d = r, w$$

$$t_{x_1} = a + (x-1)d = 100, w$$

$$2a + (x-1)d = 20 \Rightarrow 2a = 20 - (x-1)d \quad (10)$$

$$\gamma(\omega a + 1 \cdot d) = \omega a + \gamma \omega d \rightarrow 1 \cdot a = \omega d = d = \omega a$$

$$\frac{a + \gamma a}{a} = \gamma \quad \checkmark$$

(Y)

$$t_n = t_n - \gamma d + 1 \cdot \omega \rightarrow -\gamma d + 1 \cdot \omega = 0 \Rightarrow d = \omega$$

$$-, (t_a - t_\omega)(t_a + t_\omega) = \gamma a + 1 \cdot d$$

$$\frac{(\gamma t_v)(t_i + d - t_i - d)}{t_v} = \gamma(t_d) = \gamma(t \times \omega) = \frac{2\gamma a + d}{a + \omega} = \gamma$$

(10)

$$d = \frac{t_m - t_n}{n+1} = \frac{\gamma + \gamma \gamma - \gamma + 1 \cdot \gamma}{1 \cdot \gamma} = \gamma$$

(Y)

$$d = \frac{\gamma}{\gamma n - \gamma}$$

$$a_{n+1} = 11 \Rightarrow \gamma + n d = 11$$

$$\Rightarrow n = \omega \quad \checkmark$$

$$\Rightarrow n d = \frac{\omega}{\gamma n + 1} = \gamma \rightarrow 1 \cdot \omega = 1 \cdot n = \gamma$$

(Y)

$$\gamma a + (\gamma n + \gamma) d = \gamma a + 1 \cdot d \Rightarrow \gamma n + \gamma = 1 \Rightarrow n = \gamma \quad \checkmark$$

$$a + \gamma d = \gamma a + \gamma d \Rightarrow \gamma a + \gamma d = 0 \Rightarrow a + d = 0 \Rightarrow \gamma = a + d = 0$$

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