

Subject:
 Year: Month: Date:

903

آرین شفا در کمال ۲۰

$$\frac{r_1 - r_0}{r} = r_1 d \quad V_n + r_1 r_0 a$$

(۱) ۲۵

$$\Rightarrow V_n = 1.45 \times 10^5 \checkmark$$

$$1.01, 1.01, \dots, 99V$$

(۲) ۱۲۹

$$V_n + 9F = 99V$$

$$V_n + 9F$$

$$V_n = 90V \Rightarrow n = 129$$

(۲)

a + n

(۳) ۳۴

$$a_n + d + a_n + r_d + a_n + r_d = a_n + r_d = -r_n + 1$$

$$\Rightarrow r(a_n + r_d) = r(-r_n + 1)$$

(۲)

$$\Rightarrow a_n + r_d = 1 - r_n = -1 \Rightarrow a_n = -1 - r_n = -1 - 24 = -25$$

$$\Rightarrow a_n + r_d = 1 - 25 = -24 = a_{129}$$

(۴) ۲۴

(۲)

$$r - r + 1 = r - r - r$$

$$F = r + r - r - r$$

$$F = r(r + 1 - r - r) \Rightarrow F = r(r - r) \Rightarrow r = 1 \Rightarrow r + 1 + r = 24$$

(۵) ۲۷/۵

$$a_{10} + r_d = a_{10} = 27/5$$

(۲)

$$\Rightarrow a_{10} + r_d + a_{10} = 27/5 \Rightarrow a_{10} = 27/5$$

$$\Rightarrow a_{10} + 11d = 27/5 \Rightarrow 27/5 = 27/5$$

$$\frac{a_1 + r_d}{r} = \frac{1}{r} \Rightarrow a_1 + r_d = 1$$

(۶) ۳

(۲)

$$\frac{a_1 + 11d}{r} = \frac{1}{r}$$

$$\Rightarrow a_1 = \frac{1}{r} - d$$

$$\Rightarrow a_1 = \frac{1}{r} - d = \frac{1}{r} - \frac{1}{r} = 0$$

۳



$$\frac{t}{n} = \frac{t}{n} - \frac{1}{n}d + \frac{1}{n} \quad \frac{1}{n}d + \frac{1}{n} \text{ s.o.}$$

$$\therefore d, \frac{1}{n} \checkmark$$

$$\frac{1}{n}d + \frac{1}{n} \checkmark$$

$$\therefore (t_9 - t_0)(t_9 + t_0) = \frac{(\frac{t}{n} + \frac{1}{n}d - \frac{t}{n} + \frac{1}{n})(\frac{t}{n})}{\frac{t}{n}} \quad \frac{1}{n}d + \frac{1}{n} \text{ s.o.}$$

$$\frac{1(1 - \sqrt{3})}{t_1} \quad \frac{1 + \sqrt{3}}{t_{18}}$$

$$\sqrt{3} (1)$$

$$\frac{1 + \sqrt{3} - 1 + \sqrt{3}}{1\sqrt{3}} \quad \frac{1\sqrt{3}}{1\sqrt{3}} \quad \sqrt{3} \checkmark$$

$$\sqrt{3}$$

$$\frac{1}{t_1} \quad \frac{1}{t_{18}} \quad \frac{1}{t_{18} - 1} \quad \frac{1}{t_{18} - 1}$$

$$\frac{1}{t_{18} - 1}$$

$$\frac{1}{t_{18} - 1} \quad \frac{1}{t_{18} - 1} \quad \frac{1}{t_{18} - 1} \quad \frac{1}{t_{18} - 1}$$

$$\frac{1}{t_{18} - 1}$$

$$\frac{t}{n} + \frac{t}{n+f} = \frac{t}{n} + \frac{t}{n}$$

$$\frac{t}{n} + \frac{t}{n} \checkmark$$

$$\therefore \frac{t}{n} + \frac{t}{n} = \frac{t}{n}$$

$$\frac{t}{n} \quad \frac{t}{n} \quad \frac{t}{n} \quad \frac{t}{n}$$

$$\frac{t}{n}$$

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