

$$\Rightarrow \sin = -\frac{11}{10} \quad \sin = -\frac{1}{\sqrt{10}} \quad \sin = -\frac{1}{10}$$

دستمال

۲۰

دستمالی امین

$$\text{دستمالی امین} = 41 + 1 = 42$$

سوال اول:

$$\text{دستمالی امین} = 11 \quad \text{دستمالی امین} = \frac{11 + 42}{2} = 26.5$$

$$\text{دستمالی امین} = \{16, 26, 36\}$$

سوال دوم:

$$\text{دستمالی امین} = \{46, 56, 66, 76, 86, 96, 106\}$$

$$\text{دستمالی امین} = \{116, 126, 136, 146, 156, 166, 176, 186, 196, 206\}$$

$$\text{دستمالی امین} = \{206, 216, 226, 236, 246, 256, 266, 276, 286, 296, 306\}$$

شکست حمله نظامی آمریکا به ایران در طبرستان

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پنجشنبه
۶ اردیبهشت
۱۴۴۵ شوال
25 April 2024

$$\{1, 2, \dots, k, k+1, \dots, n\}$$

$$\frac{k(k+1)}{2} = \frac{k(k+1)}{2}$$

$$n=0 \quad k=0 \quad a_0 = 1$$

$$n=1 \quad k=0 \quad a_1 = 1$$

$$n=2 \rightarrow k=1 \rightarrow a_2 = 1$$

$$n=1 \rightarrow k=0 \rightarrow a_1 = \binom{1}{0} + a_0$$

$$n=2 \rightarrow k=1 \rightarrow a_2 = \binom{2}{1} + a_1$$

$$n=3 \rightarrow k=1 \rightarrow a_3 = \binom{3}{1} + a_2 = 1 + a_2$$

$$n=4 \rightarrow k=2 \rightarrow a_4 = 1$$

$$n=5 \rightarrow k=2 \rightarrow a_5 = 0$$

$$n=6 \rightarrow k=2 \rightarrow a_6 = \binom{6}{2} + a_5$$

$$n=7 \rightarrow k=3 \rightarrow a_7 = 1$$

$$a_0 + a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 8$$

$$\Rightarrow 2^3 = 8 \Rightarrow 2^k = 8 \Rightarrow k = 3$$

$$a_2 + a_5 + a_6 + \dots + a_{k-1} = 1 + a_1 + a_2 + \dots + a_{k-1} = 2^k - a_k$$

$$\left[\frac{2^{k+1}}{k+1} \right] = \left[\frac{2^{k+1}}{k+1} \right]$$

$$\Rightarrow \left[1 + \frac{2^k}{k+1} \right] = 1 + \left[\frac{2^k}{k+1} \right] \Rightarrow \frac{2^k}{k+1} \Rightarrow \frac{2^k}{k+1} \geq 0 \Rightarrow 2^k \geq k+1$$

$$\left[\frac{2^{k+1}}{k+1} \right] = \left[1 + \frac{2^k}{k+1} \right] \Rightarrow 1 + \frac{2^k}{k+1} \geq 1 + \frac{2^k}{k+1}$$

$$\frac{2^k}{k+1} \geq 1 \Rightarrow 2^k \geq k+1 \Rightarrow k \geq 1$$

روز فرهنگ بهار و ورزش زورخانه ای - روز ایمنی حمل و نقل

$$\frac{2^k}{k+1} \geq 1 \Rightarrow 2^k \geq k+1 \Rightarrow k \geq 1$$

عقود

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جمعه
۷ اردیبهشت
۱۴۴۵ شوال
26 April 2024

$$a_0 = 1F$$

$$a_V = 1V, 1F$$

$$a_1 F + b m + c$$

$$a = \frac{1}{V} \times 1 = 1 \text{ } \xi = -\frac{1}{\Delta}$$

مىلادى 1776

$$a_0 = 1 \xi \rightarrow \frac{1}{\Delta} \times 1 + b(1) + c = 1 \xi \Rightarrow ab + c = 1$$

$$a_V = 1V, 1F \rightarrow \frac{1}{\Delta} \times 1 + Vb + c = 1V, 1F \Rightarrow Vb + c = 1V$$

$$\text{لەسەن} \Rightarrow ab + c = 1 \Rightarrow -ab - c = -1$$

$$Vb + c = 1V$$

$$Vb + c = 1V$$

$$Vb = 1 \Rightarrow b = \frac{1}{V}$$

$$ab + c = 1 \Rightarrow \frac{1}{V} + c = 1 \Rightarrow c = 1 - \frac{1}{V}$$

$$a_1 \Delta = \frac{1}{\Delta} \times 1 + F(1) + (-1) = 1F$$

$$a_1 = \frac{1}{\Delta} \times 1 + 1 \times F - 1 = \frac{1F}{\Delta}$$

$$\Rightarrow \frac{a_1 \Delta}{a_1} = \frac{1F}{\frac{1F}{\Delta}} = \Delta$$

$$t_F = t_1 + Fd = a_1 + d' \Rightarrow t_1 + Fd = -\Delta d' \quad (\text{a.c.})$$

$$t_1 + Vd = a_1 + d' \Rightarrow (t_1 + Vd = -F d') \Rightarrow$$

$$\Rightarrow a_1 + d' = 0 \Rightarrow a_1 = -d' = -\Delta \left(\frac{F}{\Delta} d \right) = -\frac{F}{\Delta} d$$

$$t_1 + Fd = -\Delta d'$$

$$-t_1 - Vd = Fd'$$

$$-Fd = -\Delta d' \Rightarrow d = \frac{\Delta}{F} d'$$

$$a_1 = -\frac{F}{\Delta} d \Rightarrow bF = a_F = -\frac{F}{\Delta} d + \frac{F}{\Delta} d = -\frac{F}{\Delta} d$$

$$t_1 + Fd = -\frac{F}{\Delta} d \Rightarrow t_1 = -\frac{F}{\Delta} d$$

$$a_1 \omega = a_1 + k d' \Rightarrow -\frac{k a_1}{\omega} d + k \left(\frac{f}{\omega} d \right) = \frac{f_0}{\omega} d = f d$$

$$\frac{a_1 \omega}{d} = \frac{f d}{d} = f$$

$$4 a_1' - k a_1 d = \omega a_1 a$$

(سوال ۶)

$$k a_1 (2 a_1 - d) = \omega a_1 a$$

$$k a_1 (a_1 - \frac{1}{2} d) = \omega (a_1 - \frac{1}{2} d) a_1 \Rightarrow a_1 - \frac{1}{2} d = 0 \Rightarrow a_1 = \frac{1}{2} d$$

$$\Rightarrow k a_1 = \omega a_1 \Rightarrow k (a_1 + d) = \omega a_1$$

$$\Rightarrow k a_1 + k d = \omega a_1 \Rightarrow k d = \omega a_1$$

$$\frac{a_1 k}{d} = \frac{a_1 + k d}{d} \xrightarrow{k d = \omega a_1} \frac{a_1 + \omega a_1}{\frac{\omega}{k} a_1} = \frac{a}{\frac{\omega}{k}}$$

$$\xrightarrow{a_1 = -\frac{1}{2} d} \frac{-\frac{1}{2} d + k d}{d} = 1$$

$$c, b, a \xrightarrow{\text{خواص}} c, c+d, c+kd$$

(سوال ۷)

$$\frac{c}{f}, \frac{a}{f} c b \xrightarrow{\text{خواص}} \frac{c}{f}, \frac{c a}{f}, \frac{c a'}{f}$$

$$c+d = \frac{c a'}{f} \Rightarrow \frac{c a'}{f} - c = d \Rightarrow c \left(\frac{a'}{f} - 1 \right) = d$$

$$c+kd = \frac{c a}{f} \Rightarrow \frac{c a}{f} - c = d \Rightarrow c \left(\frac{a}{f} - 1 \right) = kd$$

$$\frac{c \left(\frac{a'}{f} - 1 \right)}{c \left(\frac{a}{f} - 1 \right)} = \frac{kd}{d} \Rightarrow \frac{1}{\frac{a}{f} - 1} = k \Rightarrow 1 = a + k \Rightarrow a = 1 - k$$

$$k a = 1 - k$$

$C \in \mathbb{C} \rightarrow C, Cq, Cq^2$

سوال (۱)

$C, Pa, Pb \xrightarrow{\text{حاصل}} c, C+d, C+rd$

$Pq = c + rd \Rightarrow Pq - c = rd \rightarrow C(Pq - 1) = rd$

$Pq^2 = c + d \rightarrow Pq^2 - c = d \Rightarrow C(Pq^2 - 1) = d$

$\frac{C(Pq - 1)}{C(Pq^2 - 1)} = \frac{rd}{d} \Rightarrow \frac{Pq - 1}{Pq^2 - 1} = r \Rightarrow Pq^2 - Pq - 1 = 0$

$\Delta = b^2 - 4ac = 4 + 4 = 8$

$q = \frac{P \pm \sqrt{8}}{2} = \frac{1 \pm \sqrt{2}}{2}$ (مختار) $\rightarrow \frac{1}{2}$

$\frac{q_1}{q_2} = \frac{a_1 q_1}{a_1 q_2} = q^2 = \left(-\frac{1}{2}\right)^2 = \frac{1}{4}$

$\frac{q_1}{(q_2)^2} + \frac{q_2}{(q_1)^2} = r \rightarrow \frac{a_1 q_1}{a_1^2 q_2^2} + \frac{a_1 q_2}{a_1^2 q_1^2} = r$ سوال (۲)

$\frac{q_1}{a_1^2} + \frac{q_2}{a_1^2} = r = 0 \rightarrow \frac{q_1}{a_1} = 1$

$\hookrightarrow \frac{q_1}{a_1} = -r$

$\frac{a_1}{a_2} = \frac{a_1}{a_2} = \frac{a}{a} \rightarrow \frac{1}{r}$

$$a_\mu = \sqrt{a_\tau} \quad a_\omega = \rho V \Rightarrow a q^\tau = \frac{1}{a} (q^\mu) \quad \text{سؤال ١٥}$$

$$q^\mu = \rho V \Rightarrow q = \rho$$

$$(a q^\tau)_\tau = (\sqrt{a q^\mu})^\tau \Rightarrow a q^\tau = a q^\mu \Rightarrow \frac{a q^\tau}{a q^\mu} = 1$$

$$a q = 1 \rightarrow a_\tau = 1$$

$$\frac{1}{\tau} = a_1 = \frac{1}{\tau} - \frac{1}{\mu} = \frac{1}{4} \quad \text{جواب}$$

$$a q = 1 \xrightarrow{q = \mu} a = \frac{1}{\mu}$$