

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

درصدی امده دستمال

$$45 = 41 + 1 = 42 \quad \text{دستمال} = 41$$

سوال اول:

$$\frac{11+45}{2} = 28 \quad \text{دستمال} = 11$$

$$\{16, 26, 36\}$$

سوال دوم:

$$\{46, 56, 66, 76, 86, 96\}$$

$$\{116, 126, 136, 146, 156, 166, 176, 186, 196\}$$

$$\{206, 216, 226, 236, 246, 256, 266, 276, 286, 296\}$$

شکست حمله نظامی آمریکا به ایران در طیس

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پنجشنبه

۶ اردیبهشت

۱۴۴۵ شوال ۱۶

25 April 2024

$$\{1, 2, 3, \dots, k, k+1, \dots, n\}$$

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

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

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

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

$$n=3 \rightarrow k=1 \rightarrow a_3 = \binom{3}{1} + a_2 = 1 + 1 = 2$$

$$n=4 \rightarrow k=1 \rightarrow a_4 = \binom{4}{1} + a_3 = 1 + 2 = 3$$

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

$$n=6 \rightarrow k=2 \rightarrow a_6 = \binom{6}{2} + a_5 = 15 + 0 = 15$$

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

$$a_0 + a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 = 1 + 1 + 1 + 2 + 3 + 0 + 15 + 1 = 24$$

$$\Rightarrow 24 + 1 = 25 \Rightarrow 25 = 5^2 \Rightarrow a = 5$$

$$a_2 + a_3 + a_4 + \dots + a_n = 1 + a_1 + a_2 + \dots + a_n = 1 + 1 + 1 + 2 + 3 + 0 + 15 + 1 = 24$$

$$\left[\frac{k(k+1)}{k+1} \right] = \left[\frac{k}{k+1} + \frac{k}{k+1} \right]$$

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

$$\left[\frac{k(k+1)}{k+1} \right] = \left[\frac{k}{k+1} + \frac{k}{k+1} \right] \Rightarrow 1 + \frac{k}{k+1} \Rightarrow n \geq 1, n \geq 2$$

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

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

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

عقود

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جمعه

۷ اردیبهشت

۱۴۴۵ شوال ۱۷

26 April 2024

$$a_0 = 1F$$

$$a_V = 1V, 1F$$

$$a_1 F + b m + c$$

$$a = \frac{1}{V} \quad 1 = 1 \quad c = \frac{1}{\Delta}$$

سوال 17

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

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

$$\text{لـ 17} \quad 2 \times (ab + c = 1F) \Rightarrow -ab - c = -1F$$

$$Vb + c = 1V$$

$$Vb + c = 1V$$

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

$$ab + c = 1F \quad 1F + c = 1F \Rightarrow c = 0$$

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

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

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

$$t_F = t_1 + Fd = a_1 + d' \quad t_1 + Fd = -\Delta d' \quad (\text{سوال 17})$$

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

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

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

$$-t_1 - Vd = Fd'$$

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

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

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

$$a_1 \omega = a_1 + 1 \cdot d \Rightarrow -\frac{r}{\omega} d + 1 \cdot \left(\frac{r}{\omega} d\right) = \frac{r}{\omega} d = \omega d \quad (\text{نکته})$$

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

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

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

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

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

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

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

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

$$c, b, a \xrightarrow{\text{عملیات}} c, c+d, c+rd$$

$$\frac{c}{r}, \frac{a}{r}, c, b \xrightarrow{\text{عملیات}} \frac{c}{r}, \frac{c+rd}{r}, \frac{c+rd}{r}$$

$$c+d = \frac{c+rd}{r} \Rightarrow \frac{c+rd}{r} - c = d \Rightarrow c \left(\frac{r}{r} - 1 \right) = d$$

$$c+rd = \frac{c+rd}{r} \Rightarrow \frac{c+rd}{r} - c = d \Rightarrow c \left(\frac{r}{r} - 1 \right) = rd$$

$$\frac{c \left(\frac{r}{r} - 1 \right)}{c \left(\frac{r}{r} - 1 \right)} = \frac{rd}{d} \Rightarrow \frac{1}{\frac{r}{r} + 1} = r \Rightarrow 1 = r + 1 \Rightarrow r = -1$$

$$r q = -1$$

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

سؤال (۱)

$$C, r_1a, r_2b \xrightarrow{\text{حاصل}} c, c+d, c+rd$$

$$r_1Cq = c + rd \Rightarrow r_1Cq - c = rd \rightarrow C(r_1q - 1) = rd$$

$$r_2Cq^2 = c + d \rightarrow r_2Cq^2 - c = d \Rightarrow C(r_2q^2 - 1) = d$$

$$\frac{C(r_1q - 1)}{C(r_2q^2 - 1)} = \frac{rd}{d} \Rightarrow \frac{r_1q - 1}{r_2q^2 - 1} = r \Rightarrow r_2q^2 - 1 = \frac{r_1q - 1}{r}$$

$$r_2q^2 - 1 = 0$$

$$\Delta = b^2 - 4ac = 4 - 14 = -10$$

$$q = \frac{r_1 \pm \sqrt{r_1^2 - 4r_2}}{2r_2} = \frac{1 \pm \sqrt{1 - 4(-10)}}{2(-10)}$$

$$\frac{q_1}{q_2} = \frac{a_1q_1}{a_1q_2} = q^2 = \left(-\frac{1}{10}\right)^2 = \frac{1}{100}$$

$$\frac{q_1}{(q_2)^2} + \frac{q_2}{(q_1)^2} = r \rightarrow \frac{a_1q_1}{a_1^2q_2^2} + \frac{a_1q_2}{a_1^2q_1^2} = r$$

سؤال (۲)

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

$$\hookrightarrow \frac{q_2}{a_1} = -1$$

$$\frac{a_1^2}{a_2^2} = \frac{a_1^2}{a_2} = \frac{a_1}{a_2} \rightarrow \frac{1}{r}$$

$$a_\mu = \sqrt{a_\tau} \quad \text{و } \omega = PV \Rightarrow aq^\tau = \frac{1}{a}(aq^\mu) \quad (\text{سؤال 15})$$

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

$q^\mu = PV \Rightarrow q = P$

$$aq = 1 \rightarrow a^\tau = 1$$

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

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