

Date:

Sub:

کلاس درازدم دفتر A

تاریخ ۱۳۹۵

۱۲، ۴، ۸، ۱

$$a \sin \frac{\sqrt{3}}{2} + b \cos \frac{\sqrt{3}}{2}$$

(1)

$$= \tan \frac{\theta}{2} \quad \frac{b}{a} = ? \Rightarrow$$

$$a \sin \frac{\sqrt{3}}{2} + b \cos \frac{\sqrt{3}}{2}$$

$$\frac{\sqrt{3}(a+b)}{(a-b)} = -\frac{\sqrt{3}}{2} \rightarrow ka+kb=b-a$$

$$b=-ka$$

$$-\frac{\sqrt{3}}{2}a - \frac{\sqrt{3}}{2}b$$

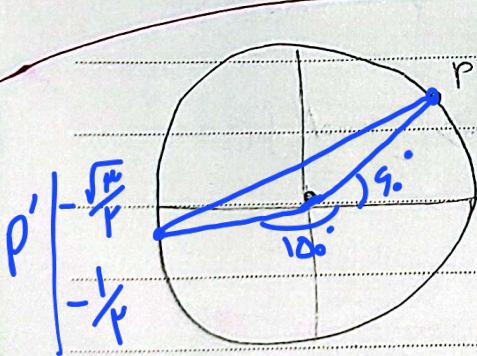
$$\checkmark \frac{1}{2}a + \frac{1}{2}b = -1 \Rightarrow -\frac{\sqrt{3}}{2}a - \frac{\sqrt{3}}{2}b = -\frac{1}{2}a - \frac{1}{2}b$$

$$\frac{b}{a} = -2$$

$$\Rightarrow \frac{\sqrt{3}-1}{2}a = \frac{1-\sqrt{3}}{2}b \Rightarrow \frac{b}{a} = \frac{\sqrt{3}-1}{1-\sqrt{3}}$$

$$= \frac{\sqrt{3}-1}{1-\sqrt{3}}$$

$$\Rightarrow \frac{\sqrt{3}-1}{1-\sqrt{3}} \times \frac{1+\sqrt{3}}{1+\sqrt{3}} = \frac{\sqrt{3}+3-1-\sqrt{3}}{-2} = \frac{2}{-2} = -1$$



$$PP' = \sqrt{\left(\frac{\sqrt{3}}{2} - \left(-\frac{1}{2}\right)\right)^2 + \left(\frac{1}{2} - \left(-\frac{\sqrt{3}}{2}\right)\right)^2} = \sqrt{2+\sqrt{3}}$$

$$\text{مسافت} = 1+1+\sqrt{2+\sqrt{3}} = 2+\sqrt{2+\sqrt{3}}$$

0

$$\frac{\pi}{4} \times \frac{1}{\pi} = \frac{1}{4} \Rightarrow \text{مقدار (مقدار) } \Rightarrow \frac{1}{4}$$

در اینجا ۲ ساعت است

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$$2 \times 2 = 4 \text{ دقیقه}$$

$$2:40 \text{ ساعت}$$

جلو آمدگی عقربه ساعت شمار = نصف دقیقه است.

$$\Rightarrow \frac{1}{4} = 9 \sim \Rightarrow \text{ساعت } [1:2]$$

تقریباً ۹ دقیقه جلو رفته

(۰.۱۵)

$$\alpha = |\omega, \omega M - \frac{1}{2}h|$$

$$\omega, \omega M = 11. \rightarrow M = 2.$$

$$|\omega, \omega M - \frac{1}{2}(3)| = 2.$$

$$\omega, \omega M - 4_0 = -2.$$

$$\omega, \omega M = 7_0$$

$$M = 12, 17$$

(۰.۱۴)

$$-\frac{\pi}{4} < u < \frac{\pi}{4} \Rightarrow -\frac{1}{4} < \sin u < 1 \Rightarrow -\frac{1}{4} < \frac{m-2}{\omega} \leq 1$$

$$\Rightarrow -\frac{0}{4} < m-2 \leq 0 \Rightarrow -\frac{1}{4} < m \leq 2 \Rightarrow \text{قابل بررسی}$$

(۱.۷۵)

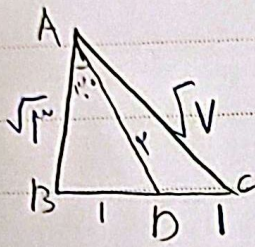
$$\sin(\pi + 15^\circ) + k \cos(\frac{1}{2}\pi - 15^\circ)$$

$$\cos(\pi - 15^\circ) + 2 \sin(\pi + 15^\circ)$$

نقص صورت مضروب
cos 2

$$\frac{\cos 15^\circ - k \sin 15^\circ}{-(\cos 15^\circ - 2 \sin 15^\circ)} = 2$$

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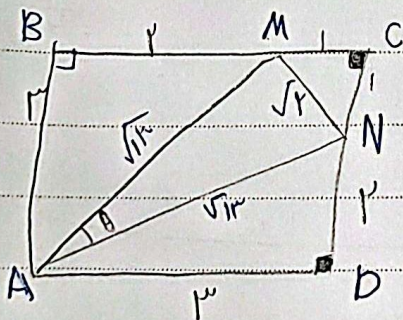
$$\Rightarrow S_{ABC} = \sqrt{r} \Rightarrow AB \Rightarrow \sin r^\circ = \frac{1}{r} = \frac{BD}{AB} = \frac{1}{AP}$$

$$\Rightarrow AP = \textcircled{1} \Rightarrow \cos r^\circ = \frac{\sqrt{r}}{r} = \frac{AB}{AP} \Rightarrow AB = \sqrt{r}$$

$$\Rightarrow \frac{\sqrt{r} \times (1+n)}{r} = \sqrt{r} \Rightarrow 1+n = r \Rightarrow n = r-1 = DC$$

$$\Rightarrow (AB)^r + (BC)^r = (AC)^r \Rightarrow \sqrt{\left(\frac{\sqrt{r}}{r}\right)^r + \left(\frac{r}{r}\right)^r} = \sqrt{r} = AC$$

$$\Rightarrow \sin r^\circ = r \sin C \cos C = r \left(\frac{\sqrt{r}}{\sqrt{r}} \right) \left(\frac{r}{\sqrt{r}} \right) = \boxed{\frac{r \sqrt{r}}{\sqrt{r}}}$$



$$MN = \sqrt{(1)^r + (1)^r} = \sqrt{r}$$

$$AN = \sqrt{\left(\frac{r}{r}\right)^r + \left(\frac{r}{r}\right)^r} = \sqrt{r}$$

$$AM = \sqrt{(r)^r + (r)^r} = \sqrt{r}$$

$$S_{MNC} = \frac{1 \times 1}{r} = \textcircled{\frac{1}{r}}$$

$$S_{AND} = r \times r = \textcircled{r}$$

$$S_{BMA} = \frac{r \times r}{r} = \textcircled{r}$$

$$r + r + \frac{1}{r} + n = 9$$

$$\sin \theta = \frac{\frac{r}{r}}{r \times \frac{r}{r}} = \boxed{\frac{r}{r}} \Rightarrow n = \frac{r}{r} \Rightarrow \frac{1}{r} \times AM \times AN \times \sin \theta$$