

Subject:

Year:

Month:

Date:

()

دم ب سیران

Name:

ایک سفارح

$$\text{الف) } n = \frac{27\pi}{180} = \frac{3\pi}{20}$$

$$\text{ب) } n = \frac{144\pi}{180} = \frac{4\pi}{5}$$

$$2.) \frac{2\pi}{12} = 2 \times \frac{\pi}{12} = 2 \times \frac{180^\circ}{12} = 30^\circ$$

$$1) \frac{4\pi}{9} = 4 \times \frac{\pi}{9} = 4 \times \frac{180^\circ}{9} = 4 \times 20^\circ = 80^\circ$$

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(1)

$$\frac{144\pi}{9} \times \frac{9}{180} = 144^\circ$$

$$\frac{9\pi}{180} = 9 \times \frac{\pi}{180} = 9 \times \frac{180^\circ}{180} = 9^\circ$$

$$10^\circ$$

$$\text{الف) } \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} = 1 + 2 = 1$$

$$\text{ب) } \tan \theta = \frac{\sqrt{3}}{1} = \frac{1}{2} + 1 + 2 = \frac{13}{2}$$

$$\frac{\frac{13}{2}}{\frac{\sqrt{3}}{2}} = \frac{13}{\sqrt{3}} = \frac{13\sqrt{3}}{3}$$

$$= \frac{1}{2} \times \frac{1}{2} + \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \frac{1}{4} + \frac{3}{4} = 1$$

$$\cos \theta = \frac{1}{2} \Rightarrow \theta = \frac{\pi}{3}$$

$$\tan \theta = \frac{\sqrt{3}}{1} \Rightarrow \theta = \frac{\pi}{3}$$

$$\frac{\sqrt{3}}{3} \left(\frac{1}{2} \right)$$

$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6} \Rightarrow \theta = \frac{\pi}{6}$$

$$\frac{\pi}{3}$$

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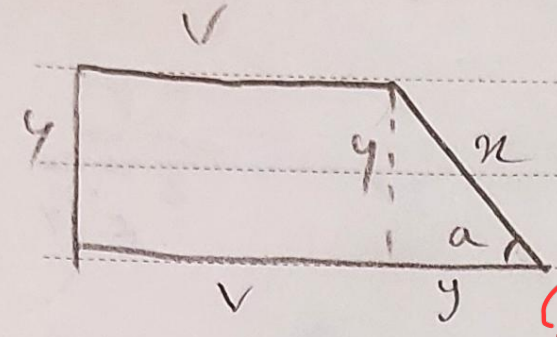
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$$1 + \sqrt{2} = \frac{1}{\cos 45^\circ} = \sqrt{2} \Rightarrow \cos 45^\circ = \frac{1}{\sqrt{2}} = \cos \theta \Rightarrow \theta = 45^\circ$$

$$\Rightarrow \sin \theta = \frac{\sqrt{2}}{2} \Rightarrow \sin \theta = \frac{5}{\sqrt{24}} \Rightarrow \frac{5\sqrt{24}}{24}$$

$$\Rightarrow \frac{10\sqrt{24}}{24} - \frac{\sqrt{24}}{24} = \frac{14\sqrt{24}}{24} = \frac{7\sqrt{24}}{12}$$



میاد در مثل است

$$\Rightarrow \sin \theta = \frac{4}{5} \Rightarrow \theta = \arcsin \frac{4}{5}$$

$$\Rightarrow y = 4 \Rightarrow y = 8 \Rightarrow 20 + 18 = 38$$

$$\cos 45^\circ = \frac{1}{\sqrt{2}} \Rightarrow AB = 5 \Rightarrow BD = 5\sqrt{2}$$

$$\Rightarrow BC = 5 \Rightarrow DC = 5\sqrt{2} - 5$$

$$\Rightarrow PC = BD = DC = 5\sqrt{2}$$

(پ) ✓

(الف) ناحیه مستقیم
(ب) ناحیه روم

$$\cos \theta = \frac{3}{5} \Rightarrow 1 + 9 = \frac{1}{\cos^2 \theta} \Rightarrow \frac{1}{\cos^2 \theta} = 10 \Rightarrow \cos \theta = \frac{1}{\sqrt{10}} \Rightarrow \sin \theta = \frac{3}{\sqrt{10}}$$

(پ) ✓

و ناحیه مستقیم است پس sin متقی است