

Subject:

Year:

Month:

Date:

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Name:

دم ب سیران

ارک سفار

$$الف) \pi, \frac{2\sqrt{3}\pi}{10}, \frac{2\pi}{20}$$

(1)

$$ب) \pi, \frac{2\sqrt{3}\pi}{10}, \frac{2\pi}{20}$$

$$2.) \frac{2\pi}{12}, 2 \times \frac{\pi}{12}, 2 \times \frac{10^\circ}{12}, 75^\circ$$

$$1) \frac{2\pi}{9}, 2 \times \frac{\pi}{9}, 2 \times \frac{10^\circ}{9}, 2 \times 20^\circ, 40^\circ$$

$$\frac{12\pi}{9} \times \frac{1}{10} = 12\pi a^\circ$$

$\frac{a\pi}{1} = a \times \frac{\pi}{1}, a \times \frac{20^\circ}{1}, 20\pi a^\circ$

$10a^\circ$

$12\pi a^\circ + 20\pi a^\circ + 10a^\circ = 10a^\circ$

$a = 10^\circ$

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

$$\frac{13\sqrt{3}}{6}$$

$$ب) \tan \theta = \frac{\sqrt{3}}{3}, \frac{1}{2} + 1 + 3 = \frac{13}{2}, \frac{13}{2\sqrt{3}} = \frac{13\sqrt{3}}{6}$$

$$= \frac{1}{2} + \frac{1}{2} + \frac{\sqrt{3} \times \sqrt{3}}{2} = \frac{3}{2} - \frac{1}{2} = 1 = \tan \theta \times \sin \theta = \frac{1}{2}$$

$$\cos \theta = \frac{1}{2}, \tan \theta = \frac{\sqrt{3}}{2}$$

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

$$\frac{1}{2} \times \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{4}, \tan \theta = \frac{\sqrt{3}}{2}, \theta = \frac{\pi}{3}$$

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

Subject:

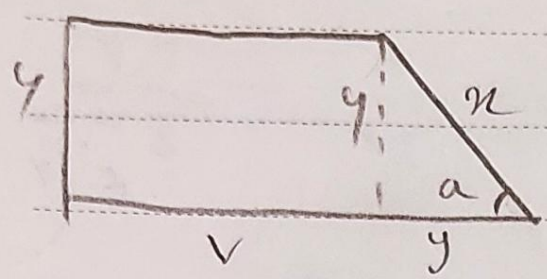
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$$1 + \sqrt{2} = \frac{1}{\cos 45^\circ} = \sqrt{2} \Rightarrow \cos 45^\circ = \frac{1}{\sqrt{2}} = \cos \theta \Rightarrow \theta = 45^\circ$$

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

$$\Rightarrow \frac{10\sqrt{2}}{2} - \frac{\sqrt{2}}{2} = \frac{19\sqrt{2}}{2} = 19$$



$$\Rightarrow \sin \alpha = \frac{4}{10} \Rightarrow \alpha = 23.6^\circ$$

$$\Rightarrow y = 10 \Rightarrow y = 10 \Rightarrow 10 + 10 = 20$$

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

$$\Rightarrow BC = \sqrt{2} \Rightarrow DC = \sqrt{2} - \sqrt{2} = 0$$

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

(9) الف (أ) متر
(ب) متر

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