

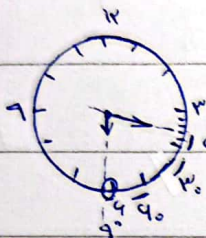


$$\frac{dE}{dt} = 2V + 9 + 12 = 10V$$

$$1 - d_1 d x d k + 3 \times 3 = +2V \rightarrow 34 - 2V = 10V$$

1- الب 3: 24

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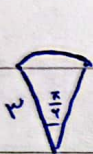


$$\frac{1A}{V} = 9 - 4 + 12 + 9 = 11$$

$$12 \times 9 - d_1 d x 11 = 11$$

2- الب 4: 11

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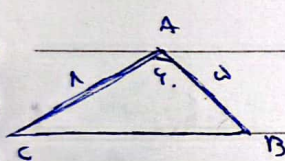


$$\frac{1}{V} \times \pi = \frac{3\pi}{V}$$

$$3 + 3 + (\frac{\pi \times 3}{V}) = 9 + \frac{\pi}{V}$$

3- مساحت مثلث

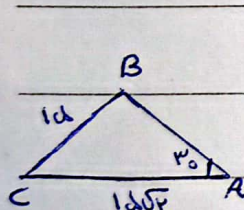
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$$\frac{d \times 1 \times 1}{V} \times \sin 45^\circ = 1.0V$$

4- الب مساحت

$$CB = \frac{1}{\sin B} \times \sin C = \frac{1}{\sin 45^\circ} \times \sin 45^\circ = 1$$



$$\frac{10}{V} = \frac{10\sqrt{2}}{\sin(150 - C)} \Rightarrow \sin(150 - C) = \frac{1 \times \sqrt{2}}{10 \times 2} = \frac{\sqrt{2}}{20}$$

$$150 - C = 45 \Rightarrow C = 150 - 45 = 105$$

$$\frac{1.0 \times \pi}{11.0} = R \quad \frac{21}{19} = \frac{V\pi}{12} \quad 45 \times \frac{\pi}{K} \Rightarrow B = 45^\circ$$

$$\frac{-\tan \alpha + 3 \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{2 \tan \alpha}{-2 \tan \alpha} = -1$$

$$-\tan \alpha + 3 \tan \alpha = 2 \tan \alpha$$

$$= \frac{\tan(\pi - \alpha) + 3 \tan(\pi + \alpha)}{\tan(\pi - \alpha) - \tan(\pi + \alpha)} = \frac{-\tan \alpha + 3 \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{2 \tan \alpha}{-2 \tan \alpha} = -1$$

$$BC = \sqrt{a^2 + b^2 - 2ab \cos 90^\circ} = \sqrt{49} = 7$$

$$a + b + c = 7 + 7 + 7 = 21$$

Senobar

SUBJECT:

Year: Month: Day:

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$$\tan \frac{\pi}{4} = a \quad r \tan \frac{\pi}{4} + \tan \frac{\pi}{4} = r \tan \left(\frac{\pi}{4} - \alpha \right) + \tan \left(\frac{\pi}{4} + \alpha \right)$$

$$\frac{\pi}{4} \times \frac{1}{r} = \frac{\pi}{4} = \alpha$$

$$r \cot(\alpha) - \cot(\alpha) = \cot \alpha \quad \frac{\alpha}{a} = \frac{1}{r \cot \alpha - \cot \alpha}$$

$$\frac{\sin \alpha + \cos \alpha}{\sin \alpha - \cos \alpha} + \frac{\sin \alpha - \cos \alpha}{\sin \alpha + \cos \alpha} = \frac{(\sin \alpha + \cos \alpha)^2 + (\sin \alpha - \cos \alpha)^2}{\sin^2 \alpha - \cos^2 \alpha} = 2$$

$$\frac{\sin^2 \alpha + \cos^2 \alpha + 2 \sin \alpha \cos \alpha + \sin^2 \alpha + \cos^2 \alpha - 2 \sin \alpha \cos \alpha}{\sin^2 \alpha - \cos^2 \alpha} = \frac{2(\sin^2 \alpha + \cos^2 \alpha)}{\sin^2 \alpha - \cos^2 \alpha} = 2$$

$$\frac{2}{1 - \cos^2 \alpha} = \frac{2}{\sin^2 \alpha} \Rightarrow 1 - \cos^2 \alpha = \sin^2 \alpha$$

$$1 + \tan^2 \alpha = 4 \Rightarrow \tan^2 \alpha = 3 \Rightarrow \tan \alpha = \sqrt{3} \Rightarrow \alpha = 60^\circ$$

$$\frac{1 - \cos^2 \alpha - \cos^2 \alpha + 1}{1 - \cos^2 \alpha + \cos^2 \alpha} = \frac{2 - 2 \cos^2 \alpha}{2 \cos^2 \alpha} = \frac{2(1 - \cos^2 \alpha)}{2 \cos^2 \alpha} = \frac{2 \sin^2 \alpha}{2 \cos^2 \alpha} = \tan^2 \alpha = 3$$

$$\frac{1}{1 + \tan^2 \alpha} = \frac{1}{4} \Rightarrow \tan^2 \alpha = 3 \Rightarrow \tan \alpha = \sqrt{3} \Rightarrow \alpha = 60^\circ$$

$$1 + \cos \alpha = r \cos \alpha$$

$$\cos \left(\frac{\pi}{4} + \alpha \right) = \frac{1 + \sqrt{r}}{r} = \frac{r + \sqrt{r}}{r} \Rightarrow r \cos \alpha = 1 + \cos \alpha$$

$$\cos \left(\frac{\pi}{4} + \alpha \right) = \frac{r + \sqrt{r}}{r} = \frac{r + \sqrt{r}}{r}$$

$$\frac{\pi}{4} + \alpha = \alpha \Rightarrow \alpha = \frac{\pi}{4}$$

$$\sin \left(\frac{\pi}{4} + \alpha \right) = \sin \left(\frac{\pi}{4} - \alpha \right) = \cos(\alpha) = \frac{r + \sqrt{r}}{r}$$



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