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الف) $\frac{2V}{1A} = \frac{n}{\pi} \rightarrow n = \frac{2V\pi}{1A} \rightarrow n = \frac{2}{V} \pi$

ب) $\frac{12\delta}{1A} = \frac{n}{\pi} \rightarrow n = \frac{12\delta\pi}{1A} \rightarrow n = \frac{12}{V\delta} \pi$

ج) $\frac{\delta\pi}{\pi} = \frac{n}{1A} \rightarrow n = V\delta$

د) $\frac{\epsilon\pi}{\pi} = \frac{n}{1A} \rightarrow \frac{\epsilon}{\pi} = \frac{n}{1A} \rightarrow n = 1$

$\frac{12\delta\pi}{\pi} = \frac{n}{1A} \rightarrow n = \frac{12\delta\pi \times 1A}{\pi} = 12\delta\pi$

$\frac{\pi\pi}{\pi} = \frac{n}{1A} \rightarrow \frac{\pi\pi}{\pi} \times 1A = 22\delta\pi$

$12\delta\pi + 22\delta\pi + 1\pi = 1A$

$\epsilon\delta\pi = 1A \rightarrow \pi = \epsilon$

الف) $\frac{1}{\sqrt{r}} \times \frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r} \times \frac{1}{\sqrt{r}} - 1 + \sqrt{r} \times r = 1$

ب) $\frac{\frac{1}{\sqrt{r}} + 1 + \pi}{\sqrt{r} - \frac{\sqrt{r}}{\pi}} = \frac{\frac{1\pi}{\pi\sqrt{r}}}{\frac{\pi\sqrt{r} - \sqrt{r}}{\pi}} = \frac{1\pi}{\pi\sqrt{r} - \sqrt{r}} = \frac{1\pi}{\pi(\sqrt{r} - 1)} = \frac{1\pi}{\pi(\sqrt{r} - 1)}$

$-\frac{1}{r} \times \frac{1}{r} + \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \sin^2 \theta$

$-\frac{1}{r} + \frac{r}{r} = \sin^2 \theta \rightarrow \frac{1}{r} = \sin^2 \theta \rightarrow \sin \theta = \frac{\sqrt{r}}{r}$

$\theta = 45^\circ$ $\tan 45^\circ = 1$

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 $\frac{r}{\sqrt{r}}$

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$$r \times \frac{\sqrt{r}}{r} \left(1 - \frac{1}{r}\right) = \tan \theta \quad - (1)$$

$$\left(1 - \frac{1}{r}\right)^r$$

$$\frac{r\sqrt{r}}{r}$$

$$\frac{r}{r}$$

$$\frac{r}{r}$$

$$= \tan \theta \rightarrow \tan \theta = \sqrt{r}$$

$$\theta = 90^\circ \text{ to } 180^\circ$$

$$\frac{r_0}{110} = \frac{n_0}{\pi} \rightarrow n = \frac{r_0 \pi}{110}$$

$$n = \frac{\pi}{r}$$

$$\tan \theta = \Delta \rightarrow \frac{\sin \theta}{\cos \theta} = \Delta \rightarrow \sin \theta = \Delta \cos \theta$$

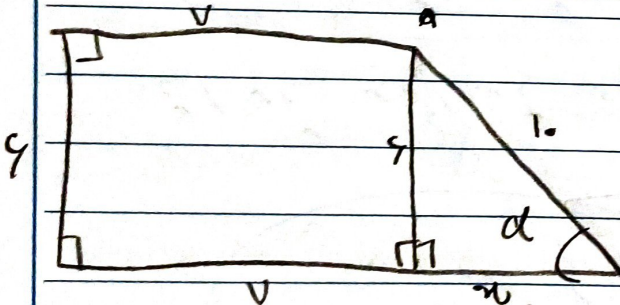
-9

$$r(\Delta \cos \theta) - \cos \theta$$

$$= \frac{10 \cos \theta - \cos \theta}{\cos \theta} = \frac{9 \cos \theta}{\cos \theta}$$

$$\Delta \cos \theta - \cos \theta$$

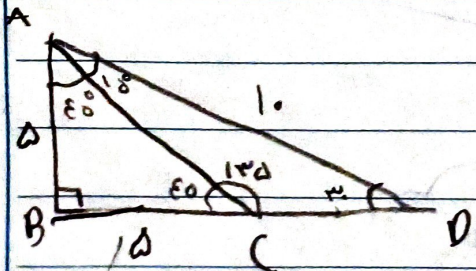
$$18$$



$$\frac{1}{2} = r + v + 1 + 1 =$$

$$31$$

$$r + n = 1 \rightarrow n = A$$



$$\cos \theta = \frac{\sqrt{r}}{r}$$

$$\frac{BD}{AD} = \frac{\sqrt{r}}{r} \rightarrow \frac{BD}{1} = \frac{\sqrt{r}}{r}$$

-1

$$DC = BD = BC$$

$$BD = a\sqrt{r}$$

$$\sin \theta = \frac{1}{r} \rightarrow AB = a$$

$$a\sqrt{r} = a$$

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for which?

possible?

$$\sin \alpha < 0$$

$$\tan \alpha = \frac{y}{x} \rightarrow \cot \alpha = \frac{x}{y}$$

$$-1$$

$$\cos \alpha < 0$$

$$\frac{1}{\sin^2 \alpha} = 1 + \cot^2 \alpha$$

$$\sec^2 \alpha$$

$$\frac{1}{\sin^2 \alpha} = 1 \rightarrow \sin^2 \alpha = \frac{1}{1} \rightarrow \sin \alpha = \pm \frac{1}{\sqrt{1}}$$

$$\sin \alpha = -\frac{1}{\sqrt{1}}$$