

18/10

1 March 2024 / 1445 شعبان ٢٠

Friday / جمعة

امراتيد و مسج - سرى - 1405 - كره

الف) $\sqrt{x} \times \frac{\pi}{110} = \frac{2\pi}{20}$

ج) $\frac{2\pi}{x} \times \frac{1A.}{x} = 75^\circ$

ب) $\frac{15}{5} \times \frac{\pi}{110} = \frac{5 \cdot \pi}{72}$

د) $\frac{2\pi}{9} \times \frac{1A.}{x} = 1^\circ$

ر) $\frac{9}{10} = \frac{9}{10}$

$12, 15a + 22, 15a + 10a = 30a$

$\frac{15a}{9} \times \frac{15a}{9} = \frac{15a}{9} \times \frac{9}{10} = 12, 15a$

$\frac{a\pi}{2} \times \frac{1A.}{\pi} = 22, 15a$

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

$\frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2} = 1 + 2 = 1$

ب) $\frac{(\frac{\sqrt{2}}{2})^2 + 1 + (\frac{\sqrt{2}}{2})^2}{\sqrt{2} - \frac{\sqrt{2}}{2}} = \frac{\frac{2}{4} + 1 + \frac{2}{4}}{\frac{2\sqrt{2} - \sqrt{2}}{2}} = \frac{\frac{4}{4} + 1 + \frac{2}{4}}{\frac{\sqrt{2}}{2}} = \frac{2 + 1 + \frac{1}{2}}{\frac{\sqrt{2}}{2}} = \frac{3.5}{\frac{\sqrt{2}}{2}} = 7, 15\sqrt{2}$

$\sin(A-B) = \sin A \cos B - \cos A \sin B$
 $\sin(30-40) = \sin 30 \cos 40 - \cos 30 \sin 40 = -\frac{1}{2}$

$\sin 30 \cos 40 + \cos 30 \sin 40 = -[\sin 30 \cos 40 - \cos 30 \sin 40]$
 $= \sin(30-40) = -(-\frac{1}{2}) = \frac{1}{2}$

$\sin \theta = \frac{1}{\sqrt{2}} \rightarrow 0 < \theta < 90 \rightarrow \sin \theta = \frac{\sqrt{2}}{2} \rightarrow \theta = 45^\circ$

$$\frac{\frac{\sqrt{2}}{2} \times \frac{4}{9}}{\left(\frac{4}{9}\right) \frac{4}{9}}, \frac{\sqrt{2} \times 9^{\frac{1}{2}}}{4 \times 4^{\frac{1}{2}}} \sqrt{2}$$

$$0 < \theta < 90^\circ$$

$$\tan \theta \leq \sqrt{2} \Rightarrow \theta \leq 90^\circ$$

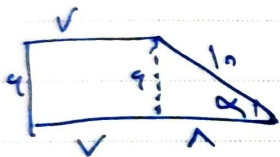
$$1 - \tan^2 \theta \leq \frac{4}{9} \quad 1 - \cot^2 \theta \geq \frac{4}{9}$$

$$\frac{40}{110} \leq \frac{\text{Real}}{\pi}$$

$$\frac{40\pi}{110} \leq \left(\frac{\pi}{2} \right)$$

$$-9 \text{ - هجرات - بر } \cos$$

$$\frac{\tan - 1}{\tan - 2} \leq \frac{12}{1} = 12$$



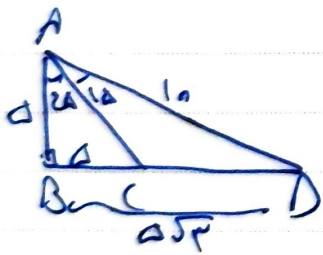
$$\sin \alpha \leq \frac{4}{10} \leq \frac{\text{مقابل}}{\text{وتر}} \leq \frac{4}{25} \leq 10$$

$$100 - 44 \leq 42 - 3 \sqrt{42} \leq 1$$

$$-V$$

$$110$$

$$P = \frac{(\sqrt{2} \times 4) \times 4}{4} \leq 99$$



$$\sin 40^\circ \leq \frac{\sqrt{2}}{2} = \frac{BD}{10} \rightarrow BD \leq 5\sqrt{2}$$

$$\sqrt{100 - 70} \leq 5$$

$$\tan \alpha \leq 1 \leq \frac{\text{مقابل}}{\text{جوار}} \leq \frac{BD}{5}$$

$$-1$$

$$9$$

$$D \leq 5\sqrt{2} - 5 \Rightarrow \frac{5\sqrt{2} - 5}{10} \leq \frac{BD}{10} \leq \frac{5\sqrt{2} - 5}{10}$$

$$\sin \pm \sqrt{1 - \cos^2} \leq \pm \sqrt{1 - \frac{9}{10}} \leq \pm \frac{1}{\sqrt{10}} \rightarrow \frac{1}{\sqrt{10}} \leq \frac{1}{\sqrt{10}} \leq \frac{1}{\sqrt{10}}$$

$$\ln \tan^2 \frac{1}{\cos^2} \rightarrow \ln \frac{1}{9} \leq \ln \frac{1}{9} \leq \frac{1}{\cos^2} \rightarrow \cos \leq \frac{4}{\sqrt{10}}$$

