

٢.٠

١- الف) $\frac{D}{180} \cdot \frac{Rad}{H} \rightarrow \frac{VV}{180} \cdot \frac{Rad}{H} \rightarrow Rad = \frac{3.14}{H}$

ب) $\frac{120}{180} \cdot \frac{Rad}{H} \rightarrow Rad = \frac{2.017}{H}$

ج) $\frac{12}{180} Rad \rightarrow \frac{D}{180} = \frac{12}{180} \rightarrow D = 12$

د) $\frac{D}{180} \cdot \frac{H}{H} \rightarrow D = \frac{H \times 180}{H} = 180$

٢- $\frac{120}{180} \cdot \frac{D}{180} = \frac{120}{180} \rightarrow D = 120$

أهـ $\frac{D}{H} = \frac{D}{180} \rightarrow D = 180 \cdot \frac{H}{H} = 180$

الف) $\frac{1}{H} \times \frac{120}{H} - \frac{120}{H} \times \frac{1}{H} - 1 + 1 = 1$

ب) $\frac{(\frac{1}{H})^2 + 1 + 1 + (\frac{1}{H})^2}{120} = \frac{1}{H}$

جـ $-\frac{1}{H} \times \frac{1}{H} + \frac{120}{H} \times \frac{120}{H} - \sin^2 \theta$

د $-\frac{1}{H} + \frac{120}{H} = \frac{1}{H} \rightarrow \sin \theta = +\sqrt{\frac{1}{H}} \rightarrow +\sqrt{\frac{1}{H}}$

هـ $\theta = 45^\circ \quad \tan 45^\circ = \frac{120}{120} = 1$

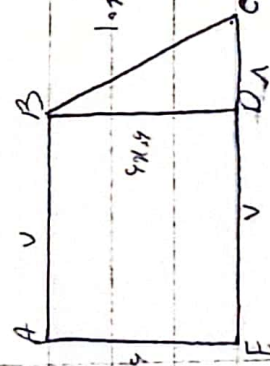
sin 45 = 0.707

٣- $\frac{120}{180} \cdot \frac{120}{180} = \frac{120}{180} \cdot \frac{120}{180}$

د $\frac{120}{180} \cdot \frac{120}{180} = \frac{120}{180} \cdot \frac{120}{180} \rightarrow \theta = 45^\circ \rightarrow \frac{120}{180} Rad$

٤- $\sin \theta = \frac{120}{180} \rightarrow \sin \theta = \frac{2}{3}$

هـ $\frac{120}{180} \cdot \frac{120}{180} = \frac{120}{180} \cdot \frac{120}{180}$



$\frac{BD}{BC} = \frac{4}{10} \rightarrow BC = 10$

$DC = \sqrt{10^2 - 4^2} = \sqrt{84} = 9.165$

أ $\hat{A} = 45^\circ \quad \frac{BD}{AD} = \frac{4}{4} \rightarrow BD = 4$

ب $\frac{AB}{AD} = \frac{1}{1} \rightarrow AB = 1$

ج $DC = 9.165$

د $\frac{AB}{AD} = \frac{1}{1} \rightarrow AB = 1$

هـ $\hat{A} = 45^\circ \rightarrow AB = 1$

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 خاصه 1: $\sin \theta' \rightarrow \cos \theta' \rightarrow$ خاصه 2

خاصه 3

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خاصه 4: $\sin \theta' \rightarrow \cos \theta' \rightarrow$ خاصه 5

خاصه 6

$$1 + \tan^2 \theta' \rightarrow 1 + \frac{1}{\cos^2 \theta'} \rightarrow \frac{1}{\cos^2 \theta'}$$

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

✓

