

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

$$\text{ب) } \frac{120}{180} \cdot \frac{Rad}{H} \rightarrow Rad = \frac{2.017}{H} \quad \text{ج) } \frac{12}{180} Rad \rightarrow \frac{D}{H} = \frac{1}{180} \rightarrow D = \frac{1}{180} \rightarrow D = \frac{1}{180}$$

$$\text{د) } \frac{D}{180} \cdot \frac{12}{H} \rightarrow D = \frac{12 \times 180}{H} = 1.2$$

$$\frac{12 \times 9}{180} = \frac{D}{180} \rightarrow \frac{12 \times 9}{180} = \frac{D}{180} \rightarrow D = 1.2 \times 9 = 10.8$$

$$\frac{aH}{\frac{1}{H}} = \frac{D}{180} \rightarrow D = 180 \times a = 180 \times 0.05 = 9 \rightarrow a = \frac{180}{9} = 20$$

$$\text{الف) } \frac{1}{H} \times \frac{\sqrt{3}}{H} - \frac{\sqrt{3}}{H} \times \frac{1}{H} - 1 + 2 = 1$$

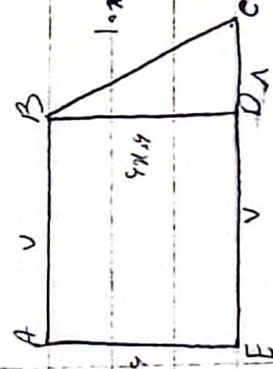
$$-1 \times \frac{1}{H} + \frac{\sqrt{3}}{H} \times \frac{\sqrt{3}}{H} - \sin \theta$$

$$\theta = 45^\circ \quad \tan 45^\circ = \frac{\sqrt{3}}{H} = 1$$

$$\frac{2 \left(\frac{1}{\sqrt{3}} \right) \left(1 - \left(\frac{1}{\sqrt{3}} \right)^2 \right)}{\left(1 - \left(\frac{1}{\sqrt{3}} \right)^2 \right)^2} = \sqrt{3} \rightarrow \tan \theta \rightarrow \theta = 45^\circ \rightarrow \frac{H}{H} Rad$$

$$\frac{\sin \theta}{\cos \theta} = 1 \rightarrow \sin \theta = \cos \theta$$

$$\frac{12 \cos \theta - \cos \theta}{\cos \theta - \cos \theta} = 12$$



$$\frac{BD}{BC} = \frac{1}{1.4} \rightarrow BC = 1.4$$

$$DC = \sqrt{1.4^2 - 1^2} = \sqrt{0.96} = 0.98 \quad P = V + 4 + 10 + V + 1 = 15.98$$

$$\hat{A} = 90^\circ \quad \frac{BD}{AD} = \frac{\sqrt{3}}{4} \rightarrow BD = \frac{\sqrt{3}}{4} AD$$

$$\frac{AB}{AD} = \frac{1}{4} \rightarrow AB = \frac{1}{4} AD \quad \hat{P}_1 = \hat{C}_1 = 90^\circ \rightarrow AB \cdot BC = 1$$

$$DC = \frac{\sqrt{3}}{4} AD$$

ناحیه ۱ $\rightarrow \sin \theta' = \cos \theta \rightarrow$ نواح ۳ و ۴

ناحیه ۲ $\rightarrow \sin \theta' = \cos \theta' \rightarrow$ نواح ۱ و ۳

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

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

