

$$c) \frac{1 + \frac{10}{x} \cdot \frac{1}{\frac{10}{x}}}{\frac{2}{x} \cdot \frac{2}{\frac{2}{x}} + \frac{1}{x} \cdot \frac{1}{\frac{1}{x}}} = \frac{1}{4}$$

الف) $AH = \frac{\sqrt{2}}{2} \times \sqrt{2} = \frac{\sqrt{2}}{2}$

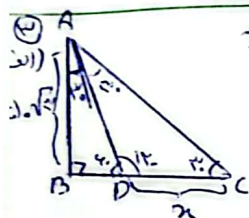
$$(Hc)^p = (r\sqrt{c})^p - \left(\frac{\sqrt{r}}{c}\right)^p$$

$$(HC)^r = \sum x^{1r} - \frac{1^r}{2} \Rightarrow HC = 19 = \boxed{19}$$

c) $\sin 30^\circ = \frac{1}{2} = \frac{AH}{\sqrt{2}} \Rightarrow AH = \sqrt{2}$

$$\cos \theta = \frac{v}{c} = \frac{9}{Ac} \Rightarrow Ac = 9v$$

$$\sin \beta = \frac{a\sqrt{2}}{c\sqrt{4}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \Rightarrow \beta = 45^\circ$$



$$\frac{\sqrt{2}}{2} AD = AB \Rightarrow \underline{AD = 100}$$

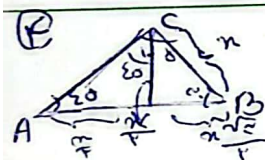
$$BD = \frac{1}{2} \sqrt{2} = \frac{1}{2} \sqrt{2} \cdot \frac{1}{2} = \frac{1}{4} \sqrt{2}$$

$$\Rightarrow n = 100$$

c) $\frac{1}{x} = y \Rightarrow x = \frac{1}{y}$

$$(\sqrt{14})^p + 1^p = (pC)^p \Rightarrow DC = \sqrt{14}$$

$$\sin \alpha = \frac{1}{\sqrt{10}} = \frac{\sqrt{10}}{10}$$



$$\frac{\sqrt{r}}{r} A C = \frac{n}{r} \Rightarrow A C = \frac{n}{\sqrt{r}}$$

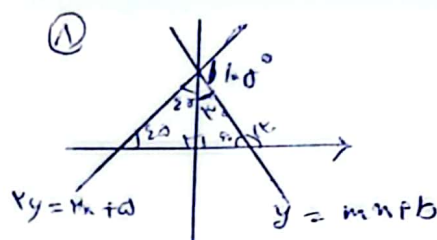
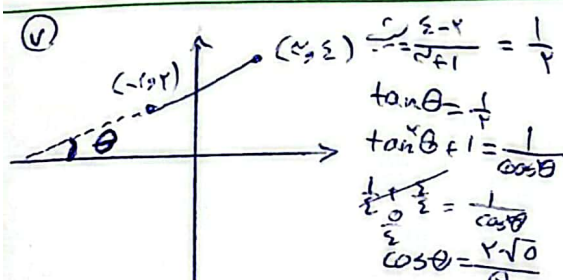
$$\frac{AB}{AC} = \frac{\frac{x + x\sqrt{2}}{2}}{\frac{x}{\sqrt{2}}} = \frac{\sqrt{2} + \sqrt{2}}{2}$$

(Q) $\frac{1}{v} ab \sin C$ $B_1 = B_2$

$$\frac{S_{ABE}}{S_{BCD}} = \frac{\frac{1}{r} \times \frac{1}{r} \times \frac{1}{r} \times \sin 15^\circ}{\frac{1}{r} \times \frac{1}{r} \times \frac{1}{r} \times \sin 15^\circ} = \frac{1}{1} = \left(\frac{2}{9} \right)$$

$$(9) \quad \frac{1}{2} \alpha \times \alpha \sin \phi_0 = 4\sqrt{2}$$

c) $\frac{1}{r} \propto \frac{1}{r} \times \frac{r^2}{r} = \frac{r^2}{r}$



$$y = m + \frac{a}{r}$$

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

$$\tan \alpha / \gamma_0 = \sqrt{2}$$

$$m = \sqrt{a} \quad , \quad b = \frac{a}{r}$$

$$\Rightarrow y = \sqrt{x} + \frac{\sigma}{\sqrt{x}}$$

$$mb = \frac{Q}{r} \alpha \sqrt{r} = \frac{\omega \sqrt{r}}{r}$$

⑨ $-\cos n + \cos n + \cot n$

$$\Rightarrow \cot n = \cot \left(\frac{180^\circ}{4} \right)$$

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

$$(10) \frac{\cos \pi - \sin \pi}{-\cos \pi + \sin \pi} = \frac{-(-\cos \pi + \sin \pi)}{-\cos \pi + \sin \pi} = -1$$