

$$3) \frac{V}{V_0} = \frac{Rad}{\pi} \rightarrow Rad = \frac{V}{V_0} \times \pi = \frac{V \pi}{V_0}$$

$$4) \frac{V_0}{V_0} = \frac{Rad}{\pi} \rightarrow Rad = \frac{V_0}{V_0} \times \pi = \frac{\pi}{V_0}$$

$$5) \frac{\partial \pi}{\partial V} rad = \frac{D}{V_0} \rightarrow \frac{\partial \pi}{\partial V} \times \frac{V_0}{\pi} = V_0$$

$$6) \frac{\pi}{q} rad = \frac{D}{V_0} \rightarrow \frac{\pi}{q} \times \frac{V_0}{\pi} = V_0$$

$$\frac{V_0 a}{q} = \frac{D}{V_0} \rightarrow D = \frac{V_0 a}{q} \times \frac{V_0}{\pi} = \frac{V_0^2 a}{\pi}$$

$$1.0 a + \frac{V_0^2 a}{\pi} = \frac{V_0^2 a}{\pi} = \frac{V_0^2 a}{\pi}$$

$$V_0 a = V_0 \quad a = V_0$$

$$\frac{a \pi}{\pi} = \frac{D}{V_0} \rightarrow \frac{a \pi}{\pi} \times \frac{V_0}{\pi} = \frac{V_0 a}{\pi}$$

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

$$\frac{\left(\frac{\sqrt{p}}{p}\right)^2 + (1)^2 + (\sqrt{p})^2}{\sqrt{p} - \frac{\sqrt{p}}{p}} = \frac{\frac{p}{p} + 1 + p}{\frac{p\sqrt{p}-\sqrt{p}}{p}} = \frac{\frac{p}{p}}{\frac{p\sqrt{p}}{p}} = \frac{1}{p\sqrt{p}}$$

$$-\frac{\sqrt{p}}{p} \times \frac{\sqrt{p}}{p} + \frac{1}{p} \times \frac{1}{p} = -\frac{p}{p} + \frac{1}{p} = \frac{1}{p} - \frac{p}{p} = \sin \theta$$

$$\sin \theta = \sqrt{\frac{1}{p}} = \frac{1}{\sqrt{p}} \times \sqrt{p} = \sqrt{\frac{1}{p}} \rightarrow \sin \theta = \frac{1}{\sqrt{p}} \quad \tan \theta = \frac{1}{\sqrt{p}} = 1$$

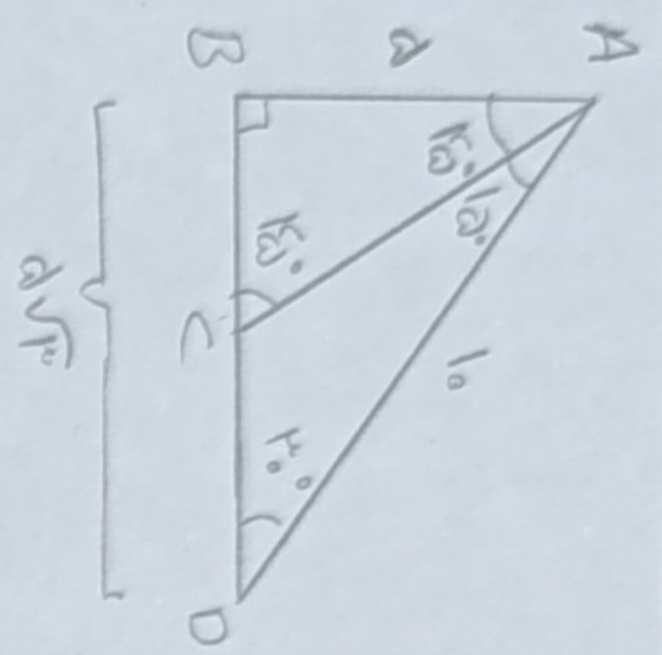
$$\frac{\frac{V\sqrt{p}}{p} \left(1 - \left(\frac{\sqrt{p}}{p}\right)^2\right)}{\left(1 - \left(\frac{\sqrt{p}}{p}\right)^2\right)^2} = \frac{\frac{V\sqrt{p}}{p} \left(1 - \frac{p}{p}\right)}{\left(1 - \frac{p}{p}\right)^2} = \frac{\frac{V\sqrt{p}}{p} \times \frac{p}{p}}{\frac{p}{p}} = \frac{V\sqrt{p}}{p} \times \frac{p}{p} = \sqrt{p} = \tan \theta \quad \theta = 45^\circ$$

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

$$\frac{V \sin \theta - \cos \theta}{\sin \theta - V \cos \theta} = \frac{V(a \cos \theta) - \cos \theta}{a \cos \theta - V \cos \theta} = \frac{1}{a}$$

$x = \sqrt{y^2 + w^2} = \sqrt{w^2 + 9} = \sqrt{25} = 5$
 ~~$y + v + 10 + 4\sqrt{10} = 10 + 4\sqrt{10}$~~

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$\overline{BD} = \frac{\sqrt{r}}{r} \times 10 = a\sqrt{r}$
 $\overline{AB} = \frac{1}{r} \times 10 = a$
 $\hat{A} = \hat{C} = x \Rightarrow \overline{AB} = \overline{BC} = a$
 $CD = a\sqrt{r} - a = a(\sqrt{r} - 1)$

5

الف) $180^\circ < x < 180^\circ \rightarrow$ مستقيم
 ب) $90^\circ < x < 180^\circ \rightarrow$ منحرف

3

$\tan x = \frac{\sin x}{\cos x} = \frac{1}{r} \rightarrow \sin x = \frac{1}{r} \cos x$
 $r = \sqrt{1^2 + r^2} = \sqrt{10} \quad \sin x = \frac{1 \times \sqrt{10}}{\sqrt{10} \times \sqrt{10}} = \frac{\sqrt{10}}{10}$

$\cos = 1$, $\text{جيب} = r$
 $\sin x < 0 \rightarrow = -\frac{\sqrt{10}}{10}$

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(10)

(9)

(1)