

$$\frac{12}{18} = \frac{20}{x} \Rightarrow \frac{20}{x} = \frac{20}{18} \Rightarrow x = 18$$

$$\frac{12}{18} = \frac{x}{x} \Rightarrow \frac{20}{x} = \frac{20}{18} \Rightarrow x = 18$$

$$\frac{12}{18} = \frac{x}{18} \Rightarrow 12 = x$$

$$\frac{12}{18} = \frac{20}{x} \Rightarrow x = 18$$

الف :
ب :
ج :
د :

$$\frac{12 \Delta \alpha}{9} = \frac{20}{18} \Rightarrow \frac{12 \Delta \alpha}{9} = \frac{20}{9} \Rightarrow x = \frac{12 \Delta \alpha}{9}$$

$$\Rightarrow y = 12 \Delta \alpha$$

$$\frac{12 \Delta \alpha}{9} + 12 \Delta \alpha + 10 \alpha = 18 \Rightarrow (12 \Delta + 12 \Delta + 10) \alpha = 18$$

$$\Rightarrow \alpha = 6$$

$$\frac{12 \Delta \alpha}{9} = \frac{20}{18} \Rightarrow 12 \Delta \alpha \times 18 = 20 \times 9$$

$$\Rightarrow (12 \Delta + 12 \Delta + 10) \alpha = 18$$

$$\Rightarrow \alpha = 6$$

$$\frac{1}{2} \times \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{2} \times \frac{1}{2} - 1 + 2 = \frac{1}{2}$$

$$\frac{\frac{\sqrt{3}}{2} + 1 + 2}{\sqrt{3} - \frac{\sqrt{3}}{2}} = \frac{\frac{\sqrt{3}}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{2}$$

الف :
ب :

$$-\frac{1}{2} \times \frac{1}{2} + \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \frac{1}{2}$$

$$\sin \theta = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \Rightarrow \theta = 45^\circ \Rightarrow \tan 45^\circ = 1$$

$$\frac{2 \times \frac{\sqrt{3}}{2} (1 - \frac{2}{9})}{(1 - \frac{2}{9})(1 - \frac{2}{9})} = \frac{\frac{\sqrt{3}}{2}}{\frac{2}{9}} = \sqrt{3} = \tan \theta \Rightarrow \theta = 60^\circ = \frac{\pi}{3}$$

1

2

3

4

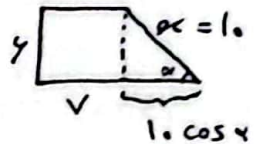
5

$$\sin \theta = \Delta \cos \theta$$

$$\frac{3(\Delta \cos \theta) - \cos \theta}{\Delta \cos \theta - \epsilon \cos \theta} = \frac{14}{3}$$

$$y = \frac{y}{1.0} x \Rightarrow x = 1.0 \quad \cos^2 \alpha = 1 - \frac{y^2}{1.0^2} = \frac{y^2}{1.0^2} \Rightarrow \cos \alpha = \frac{1}{1.0}$$

$$\frac{1}{1.0} \times 1.0 = 1 \quad \text{مساحت} = y + V + V + 1 + 1.0 = 3.1$$



$$\hat{A} = 4.0 \Rightarrow AB = 1.0 \times \frac{1}{y} = \Delta \quad BD = \frac{\sqrt{3}}{y} \times 1.0 = \Delta \sqrt{3} \quad AB = \Delta, \quad AB = BC \\ \Rightarrow BC = \Delta \quad DC = \Delta \sqrt{3} - \Delta = \Delta(\sqrt{3} - 1)$$

$$\sin x \downarrow \text{از صفر به } -1$$

$$\cos x \uparrow \text{از } -1 \text{ به صفر}$$

الف: ناصیه سوم

ب: ناصیه دوم

$$\tan x = \frac{\sin x}{\cos x} = \frac{1}{y} \quad \cos x = y \sin x \quad 1 + \tan^2 x = \frac{1}{\cos^2 x} \Rightarrow \cos x = \frac{y}{\sqrt{1+y^2}}$$

$$\Rightarrow \sin x = -\frac{\sqrt{1.0}}{\sqrt{1.0}}$$