

دوم B

البداي حاسا

$$\frac{22}{180} = \frac{20}{\pi} \Rightarrow \frac{22\pi}{180} = 20$$

$$\frac{12\Delta}{180} = \frac{20}{\pi} \Rightarrow \frac{12\Delta\pi}{180} = 20$$

$$\frac{\Delta\pi}{15} = \frac{20}{180} \Rightarrow \Delta = 20$$

$$\frac{4\pi}{9} = \frac{20}{180} \Rightarrow \Delta = 20$$

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$$\frac{12\Delta\alpha}{9} = \frac{20}{180} \Rightarrow \frac{12\Delta\alpha}{9} = \frac{20}{9} \Rightarrow \Delta = \frac{12\Delta\alpha}{10}$$

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

$$\frac{12\Delta\alpha}{10} + 12\Delta\alpha + 10\alpha = 180$$

$$\frac{\alpha\pi}{180} = \frac{y}{180} \Rightarrow 12\Delta\alpha\pi = \pi y$$

$$\Rightarrow (12\Delta + 12\Delta + 10)\alpha = 180$$

$$\Rightarrow \alpha = 6$$

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

$$\frac{\frac{1}{2} + 1 + 2}{\sqrt{3} - \frac{\sqrt{3}}{2}} = \frac{\frac{5}{2}}{\frac{2\sqrt{3}}{2}} = \frac{5}{2\sqrt{3}}$$

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

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

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

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

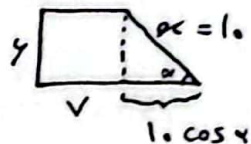
$$\frac{3(\Delta \cos \theta) - \cos \theta}{\Delta \cos \theta - \epsilon \cos \theta} = \frac{14}{3}$$

② ✓

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

$$\frac{1}{1.0} \times 1.0 = 1$$

$$\Delta \cos = y + v + v + 1 + 1.0 = \frac{3\Delta}{3}$$



② ✓

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

② ✓

$$\sin x \downarrow$$

از صفر به -1

$$\cos x \uparrow$$

از 1 به صفر

الف: ناصیه سوم

ب: ناصیه دوم

② ✓

$$\tan x = \frac{\sin x}{\cos x} = \frac{1}{y}$$

$$\cos x = y \sin x$$



$$1 + \tan^2 x = \frac{1}{\cos^2 x} \Rightarrow \cos x = \frac{1}{\sqrt{1.0}}$$

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

② ✓