

۲۰ عالی نوشتن

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الف) $\frac{27}{180} = \frac{Rad}{\pi} \Rightarrow x = \frac{27\pi}{180} = \frac{\pi}{20} \checkmark \checkmark$

ب) $\frac{135}{180} = \frac{Rad}{\pi} \Rightarrow x = \frac{135\pi}{180} = \frac{3\pi}{4} \checkmark \checkmark$

ج) $\frac{5\pi Rad}{180} = \frac{D}{180} \Rightarrow x = \frac{180 \times 5}{12} = 75^\circ \checkmark \checkmark$

د) $\frac{4\pi Rad}{9} = \frac{D}{180} \Rightarrow x = \frac{180 \times 4}{9} = 80^\circ \checkmark \checkmark$

$\frac{9\pi}{180} \times \frac{180}{\pi} = D = 9^\circ \checkmark$ $\frac{12\pi}{9} = \frac{D}{180} \Rightarrow D = 12^\circ \checkmark$

$9^\circ + 12^\circ + 1^\circ = 22^\circ$
 $22^\circ + 12^\circ + 1^\circ = 35^\circ$

الف) $\frac{1}{2} \times \frac{\sqrt{3}}{2} - \left(\frac{\sqrt{3}}{2} \times \frac{1}{2} \right) - (1) + 2 = 1 \checkmark$

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

$-\frac{1}{2} \times \frac{1}{2} + \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \sin^2 \theta = \frac{1}{2} \Rightarrow \sin \theta = \pm \frac{\sqrt{2}}{2}$

$\sin \theta = \begin{cases} \frac{\sqrt{2}}{2} & 45^\circ \\ -\frac{\sqrt{2}}{2} & 225^\circ \end{cases}$ $\tan 45^\circ = 1 \checkmark$

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

$\frac{4^\circ}{180} = \frac{Rad}{\pi} \Rightarrow Rad = \frac{\pi}{45} Rad \checkmark$

