

نام و نام خانوادگی آرش جانی پاسخنامه تشریحی تکلیف شماره کلاس

$$\frac{2\sqrt{3}\pi}{180} = \frac{9\pi}{40} = \frac{2\pi}{40} \quad (\text{الف})$$

$$\frac{124\pi}{180} = \frac{24\pi}{34} \quad (\text{ب})$$

$$\frac{2\pi}{90} \times 180 = 180^\circ \quad (\text{ج})$$

(د)

$$\frac{12a}{9} \times \frac{180}{2} = \frac{5a}{4} \quad \text{درج} = 12,5a$$

$$12,5a + 22,5a + 1.a = 45a$$

$$\frac{a}{1} \times \frac{180}{18} = 12,5a$$

$$180 = 45a$$

$$a = 4^\circ$$

$$\frac{1}{2} \times \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{2} \times \frac{1}{2} - 1 + 1 = 0$$

$$\text{ب) } \frac{\frac{1}{2} + 1 + \sqrt{3}}{\sqrt{2} - \frac{1}{\sqrt{2}}} = \frac{\frac{3 + \sqrt{3} + 1}{2}}{\frac{\sqrt{2} - 1}{\sqrt{2}}} = \frac{\frac{4 + \sqrt{3}}{2}}{\frac{\sqrt{2} - 1}{\sqrt{2}}} = \frac{13}{2\sqrt{2}}$$

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

$$-\frac{1}{4} + \frac{3}{4} = \frac{2}{4} = \sin^2 \theta$$

$$\theta = 45^\circ$$

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

$$\frac{\frac{2}{\sqrt{2}} \left(1 - \frac{1}{\sqrt{2}}\right)}{\left(1 - \frac{1}{\sqrt{2}}\right)^2} = \frac{\frac{2}{\sqrt{2}} \times \frac{1}{\sqrt{2}}}{\frac{1}{4}} = \frac{\frac{2}{2}}{\frac{1}{4}} = \frac{2}{1/4} = 8$$

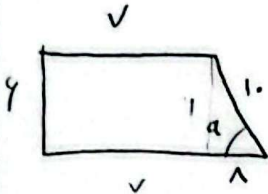
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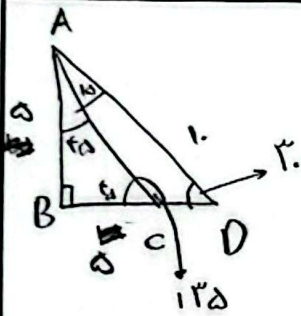
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$$v + v + a + \frac{v}{2} + \frac{1}{2} = \frac{3}{2}a$$



$$\sin a = \frac{1}{2} \Rightarrow \sin a = \frac{AB}{2} \Rightarrow AB = 1$$

$$AB = BC \Rightarrow \angle A = \angle C$$

$$\sin a = \frac{BD}{AD} = \frac{a\sqrt{3}}{2} = \frac{\sqrt{3}}{2}$$

$$a = 60^\circ$$

الف) نامة اول

ب) نامة دوم

$$\frac{\sin \theta}{\cos \theta} = \frac{1}{\sqrt{3}}$$

$$\tan \theta = \frac{1}{\sqrt{3}}$$