$(a+b)(a-b)=a^2-b^2$

19,75

پاسخ‌نامه تشریحی دفترچه A

۱- الف)

$\left(\frac{\sqrt{2}}{2}+\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{2}-\frac{\sqrt{2}}{2}\right)=\left(\frac{\sqrt{2}}{2}\right)^2-\left(\frac{\sqrt{2}}{2}\right)^2=\frac{2}{4}-\frac{2}{4}=-\frac{1}{4}$ ✓

(۲)

$4\times\frac{1}{4}+1=2$ ، $\frac{2\sqrt{2}}{4}+2\times\frac{1}{2}\rightarrow\frac{2}{4}=\frac{1}{2}$ ✓

ب)

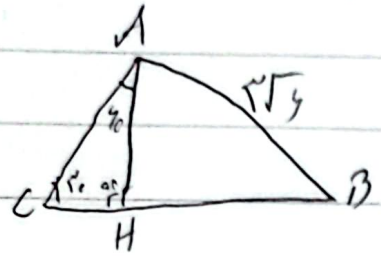
۲- الف)

$\frac{\sqrt{2}}{2}\times\frac{\sqrt{12}}{2}\times\sqrt{6}=\frac{2\sqrt{2}}{2}\sqrt{2}$ $(2\sqrt{2})^2=12\rightarrow HC=\sqrt{2}$

(۲)

$HC^2=9\Rightarrow HC=3$ ✓

ب)



$AC\times\frac{\sqrt{2}}{2}=9\rightarrow AC=\frac{9}{\frac{\sqrt{2}}{2}}=\frac{18}{\sqrt{2}}=9\sqrt{2}$

$AH=9\sqrt{2}\times\frac{1}{2}=3\sqrt{2}$ $2\sqrt{6}\times\sin B=2\sqrt{2}$

$\frac{2\sqrt{2}}{2\sqrt{6}}=\frac{\sqrt{2}\times2}{6}=\frac{\sqrt{2}}{2}\rightarrow B=45^\circ$ ✓ دقت!

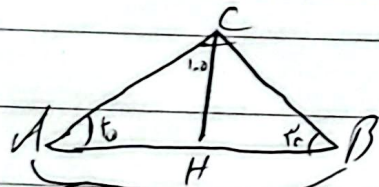
۳- الف)

$\frac{\sqrt{2}}{2}\times AD=50\sqrt{2}$ $AD=100$ $BD=\frac{1}{2}\times100$ (۱)

$AC=AH\times\frac{1}{2}=50\sqrt{2}\rightarrow AC=100\sqrt{2}$ $BC=\frac{\sqrt{2}}{2}\times100\sqrt{2}=150$

$BC-BD=150-50=100$ ✓

ب) ؟



$CH=\sin60^\circ\times CA$ $\frac{AB}{AC}$ سوال نسبت رو می‌خواد $\frac{AC}{AB}$ $\frac{CA}{\frac{\sqrt{6}+\sqrt{2}}{2}\times CA}$ (۱/۷۵)

$\frac{BH}{2}=\frac{\sqrt{2}}{2}CA\times\frac{\sqrt{2}}{2}=\frac{\sqrt{6}}{4}\times CA$

$\frac{\sqrt{6}}{2}CA+\frac{\sqrt{2}}{2}CA=\frac{\sqrt{6}+\sqrt{2}}{2}CA$ $BH=\frac{\sqrt{6}}{2}CA$

$\frac{2}{\sqrt{6}+\sqrt{2}}$ ✓

۵-

$S_1=\frac{4\times\sin B\times6}{2}\rightarrow AEB$ $S_2=\frac{6\times\sin B\times4}{2}$ (۲)

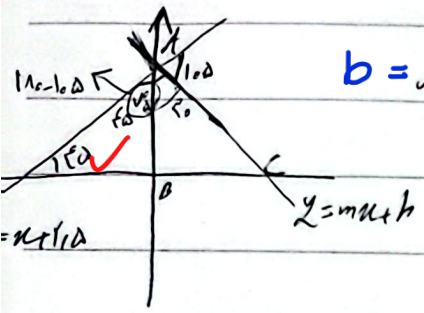
$\frac{S_1}{S_2}=\frac{24\sin B}{36\sin B}=\frac{4}{6}$ ✓

۶-

الف) $4\pi\times\frac{6^2}{8}\times\frac{\sqrt{3}}{2}=9\sqrt{3}$ ✓ (۲)

ب) $\frac{1}{2}\times4\times4\times\frac{\sqrt{3}}{2}=4\sqrt{3}$ ✓

$r^2+r^2=r_0$ $\quad PQ=\sqrt{r}$ $\Big\} \longrightarrow \cos\theta=\frac{r\cdot\sqrt{r_0}}{\sqrt{r_0}\cdot\sqrt{r_0}}\cdot\frac{r\sqrt{r_0}}{r_0}\cdot\frac{r\sqrt{r_0}}{r_0}=\frac{r\sqrt{0}}{\delta}$ ✓ (۲) ـ۷



$b=AB=\gamma_{10}$ ✓ $\quad AC\times\frac{\sqrt{r}}{r}=\frac{a}{r}$ $\quad CB=\frac{\frac{a}{\sqrt{r}}}{\frac{r}{r}}=\frac{a}{r\sqrt{r}}$ (۱) ـ۸

$\therefore m$

$\cos\left(\frac{r\pi}{r}+\frac{a\pi}{\varphi}\right)+\sin\left(\frac{\pi}{r}-\frac{a\pi}{\varphi}\right)-\tan\left(\frac{r\pi}{r}+\frac{a\pi}{\varphi}\right)$ (۱٫۵) ۹

$-\cos\frac{a\pi}{\varphi}+\cos\frac{a\pi}{\varphi}+\cot\frac{a\pi}{\varphi}=\frac{\sqrt{r}}{r}-\frac{\sqrt{r}}{r}-\sqrt{r}\longrightarrow -\sqrt{r}$ ✓

$=\cot\frac{a\pi}{\varphi}=\boxed{-\sqrt{r}}$

دقت! $\quad \frac{+\cot\pi-\sin\pi}{-\cos\pi+\sin\pi}=\boxed{-1}$ ـ۱۰ (۱٫۵)

$\hat{C}=1\Lambda_0-(\varphi\Delta+\nu\Delta)=\varphi_0\longrightarrow m=\tan 1\varphi^\circ=-\sqrt{r}$ ـ۸

$\longrightarrow mb=-\frac{a}{r}\sqrt{r}$

$\tan\varphi_0=\frac{BC}{r}\longrightarrow BC=r\sqrt{r}\quad DC=\sqrt{1r}$ (۳) ب

$\sin\alpha=\frac{BD}{DC}=\boxed{\frac{1}{\sqrt{1r}}}$