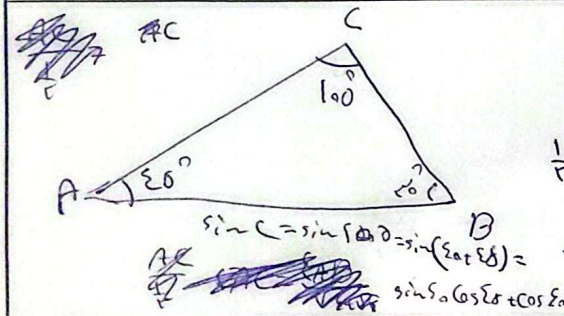
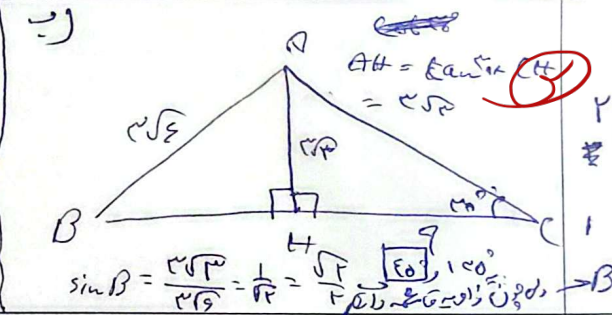
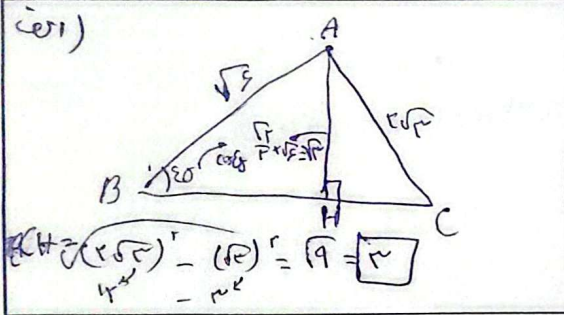
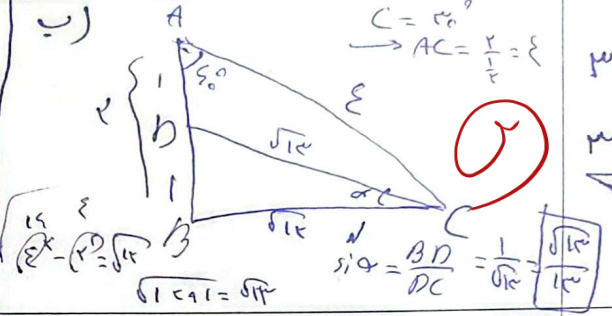
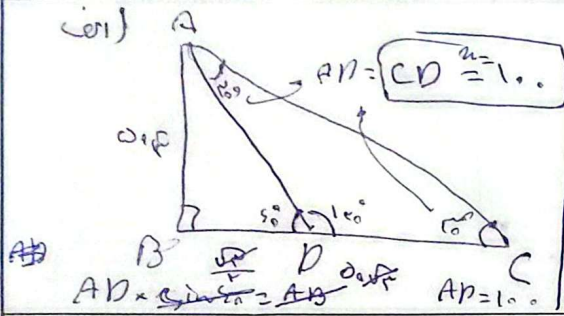


نام و نام خانوادگی پاسنامه تشریحی تکلیف شماره ۱۰ کلاس
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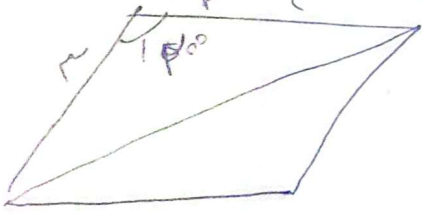
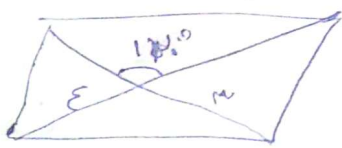
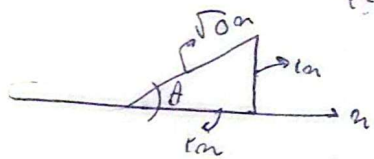
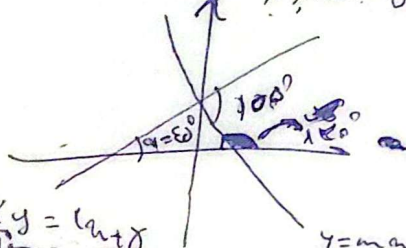
الف) $\sin 18^\circ = \frac{P}{r}$
 $\sin 36^\circ = \frac{P}{r}$
 $\left(\frac{P}{r} - \frac{r}{P}\right)\left(\frac{P}{r} + \frac{r}{P}\right) = \frac{P}{r} - \frac{r}{P}$
 $\cos 18^\circ = \frac{P}{r}$
 $\cos 18^\circ = \frac{P}{r}$

ب) $1 + \sqrt{2} \sin 45^\circ \rightarrow \left(\frac{P}{r}\right)^2 = \frac{1}{2}$
 $\frac{1+1}{1+1} = \frac{1}{2}$



$\frac{AC}{\sin B} = \frac{BC}{\sin A} = \frac{AB}{\sin C} \rightarrow \frac{AB}{AC} = \frac{\sin C}{\sin B}$
 $\frac{AB}{AC} = \frac{\sin C}{\sin B}$
 $\frac{AB}{AC} = \frac{\sin C}{\sin B}$

الف) $\sin C = \sin 18^\circ = \sin(2 \times 9^\circ) = 2 \sin 9^\circ \cos 9^\circ$
 $\sin 18^\circ = 2 \sin 9^\circ \cos 9^\circ$
 $\sin 18^\circ = 2 \sin 9^\circ \cos 9^\circ$
 $\sin 18^\circ = 2 \sin 9^\circ \cos 9^\circ$

الف) $\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$ 	ب) $\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$ 
$\tan \theta = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 1}{1 - 1} = \frac{1}{0} = \frac{1}{\infty}$  $\cos(\theta) \Rightarrow \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$	$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$
$y = mx + c$  $\tan 135^\circ = -1$	$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$
$\cos(\pi + \alpha) = -\cos \alpha$ $\sin(\frac{\pi}{2} - \alpha) = \cos \alpha$ $\tan(\frac{\pi}{2} + \alpha) = -\cot \alpha$ $f(\alpha) = -\cos \alpha + \cos \alpha + \cot \alpha = \cot \alpha$ $f(\frac{5\pi}{4}) = \cot \frac{5\pi}{4} = \cot 135^\circ = -1$	$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$
$\sin(\frac{10\pi}{4} + \alpha) + \cos(\frac{10\pi}{4} - \alpha)$ $\cos(\frac{5\pi}{2} + \alpha) \sin(\frac{5\pi}{2} - \alpha)$ $\pi + \alpha = -\cos \alpha$	$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \sin 135^\circ = \frac{1}{2}$