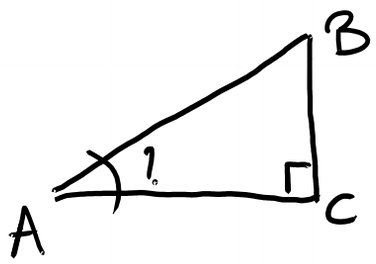
CTM 9



$\cos \hat{A} = \frac{AC}{AB}$ $\quad$ $\sin \hat{A} = \frac{BC}{AB}$

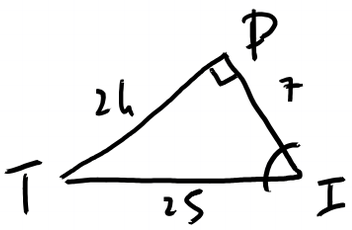
$AB = 15$ $\quad$ $AC = 12$ $\quad$ $BC = 9$

$\cos \hat{A} = \frac{12}{15} = \frac{4}{5}$ $\quad$ $\sin \hat{A} = \frac{9}{15} = \frac{3}{5}$

$\hat{A} = \arccos\left(\frac{4}{5}\right) = 36,869... \simeq 37°$

$= \arcsin\left(\frac{3}{5}\right) = 36,869... \simeq 37°$

$\hat{A} = 37°$

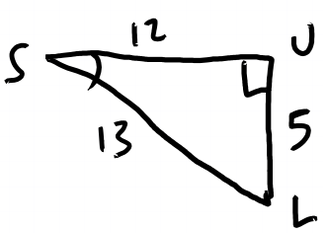


$\cos \hat{I} = \frac{7}{25}$

$\sin \hat{I} = \frac{24}{25}$

$\hat{I} = \arccos\left(\frac{7}{25}\right) =$

$= \arcsin\left(\frac{24}{25}\right) = 74°$

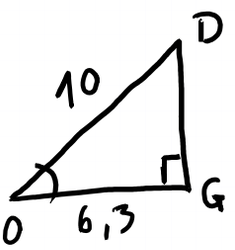


$\cos \hat{S} = \frac{12}{13}$

$\sin \hat{S} = \frac{5}{13}$

$\hat{S} = \arccos\left(\frac{12}{13}\right) =$

$= \arcsin\left(\frac{5}{13}\right) = 23°$

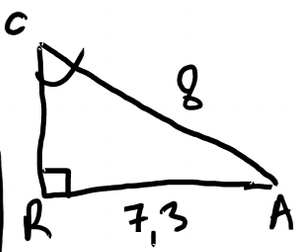


OG est le côté adjacent en $\hat{O}$

$\cos \hat{O} = \frac{6,3}{10}$

$\hat{O} = \arccos\left(\frac{6,3}{10}\right) =$

$= 51°$



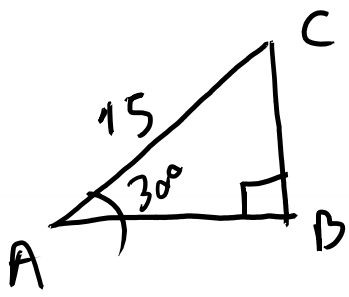
AR est le côté opposé en $\hat{C}$

$\sin \hat{C} = \frac{7,3}{8}$

$\hat{C} = \arcsin\left(\frac{7,3}{8}\right) =$

$= 66°$

CTH10

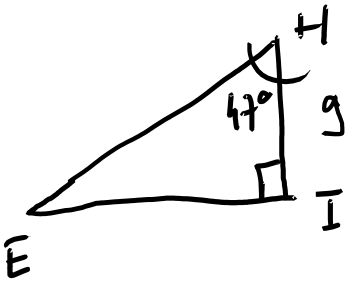


$BC = ?$

BC est le côté opposé en $\hat{A}$

Alors $\sin \hat{A} = \dfrac{BC}{AC} \Rightarrow AC \times \sin \hat{A} = BC$

Donc $BC = 15 \times \sin 30° = 7{,}5$ cm



$EH = ?$

HI est le côté adjacent en $\hat{H}$

Alors $\cos \hat{H} = \dfrac{HI}{EH} \Rightarrow EH \times \cos \hat{H} = HI$

Donc $EH = \dfrac{HI}{\cos \hat{H}} = \dfrac{9}{\cos 47°} = 13{,}2$ cm