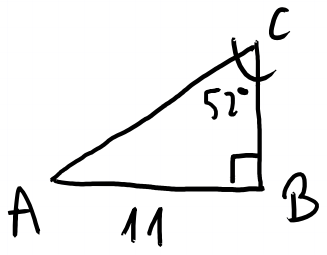
CTM 15

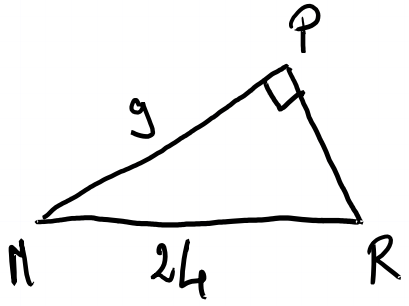


$BC = ?$

$BC = adj$ $\quad AB = opp$

$$tg\hat{C} = \frac{opp}{adj} \Rightarrow adj = \frac{opp}{tg\hat{C}}$$

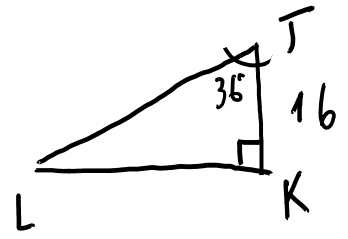
Alors $\quad BC = \dfrac{11}{tg\,52^\circ} = 8,6\ cm$



$\hat{M} = ?$ $\quad PM = adj$ $\quad MR = hyp$

$$\cos\hat{M} = \frac{adj}{hyp}$$

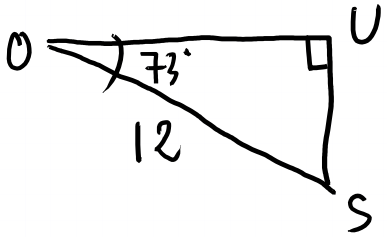
Alors: $\hat{M} = \arccos\left(\dfrac{9}{24}\right) = 68^\circ$



$JL = ?$ $\quad JL = hyp.$ $\quad JK = adj$

$$\cos\hat{J} = \frac{adj}{hyp} \Rightarrow hyp = \frac{adj}{\cos\hat{J}}$$

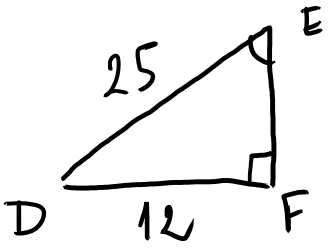
Alors $\quad JL = \dfrac{16}{\cos 36} = 19,8\ cm$



$SU = ?$ $\quad OS = hyp.$ $\quad SU = opp.$

$$\sin\hat{O} = \frac{opp}{hyp} \Rightarrow opp = hyp. \times \sin\hat{O}$$

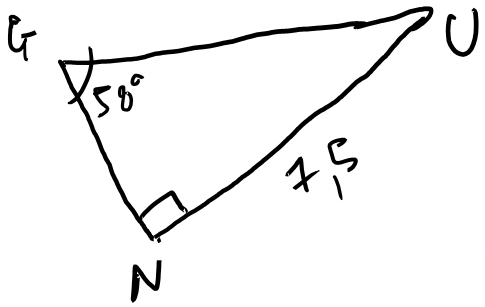
Alors: $\quad SU = 12 \times \sin 73^\circ = 11,5\ cm$



$\hat{E} = ?$ $\quad DF = opp.$ $\quad DE = hyp.$

$$\sin \hat{E} = \frac{opp}{hyp}$$

Alors: $\hat{E} = \arcsin\left(\frac{12}{25}\right) = 29°$



$NG = ?$ $\quad NG = adj$ $\quad UN = opp.$

$$tg\,\hat{G} = \frac{opp}{adj} \Rightarrow adj = \frac{opp}{tg\,\hat{G}}$$

Alors: $NG = \frac{7,5}{tg\,58°} = 4,7$ cm