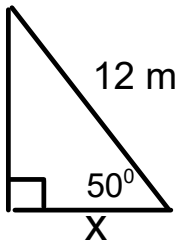
Solve for x

SOH CAH TOA

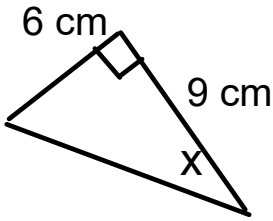


$\cos\theta = \frac{adj}{hyp}$

$\cos 50° = \frac{x}{12}$

$x = 12\cos 50°$

$= 7.7\text{ m}$

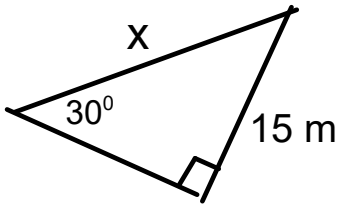


$\tan\theta = \frac{opp}{adj}$

$\tan x = \frac{6}{9}$

$x = \tan^{-1}\left(\frac{6}{9}\right)$

$= 34°$



$\sin\theta = \frac{opp}{hyp}$

$\sin 30° = \frac{15}{x}$

$\frac{x\sin 30°}{\sin 30°} = \frac{15}{\sin 30°}$

$x = 30\text{m}$

Problems with the homework?

None reported...