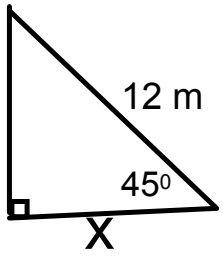
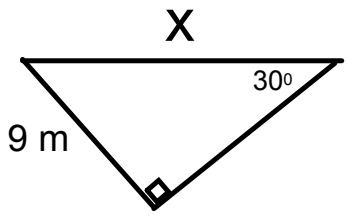
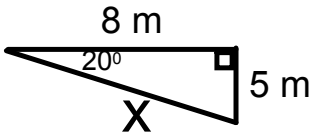
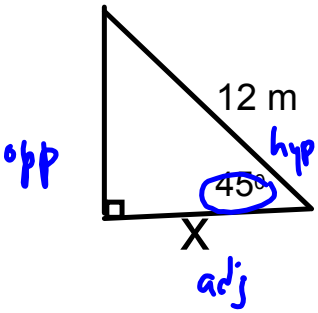
Find a missing side







Find a missing side



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

$\cos 45^\circ = \frac{x}{12}$

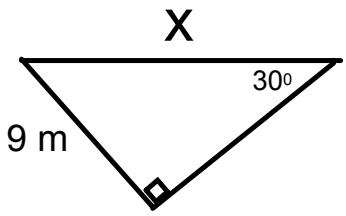
$x = 12\cos 45^\circ$

$= 8.49\text{ m}$

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

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

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



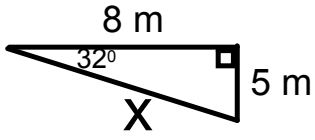
$\sin\theta = \frac{opp}{hyp}$

$\sin 30^\circ = \frac{9}{x}$

$x\sin 30^\circ = 9$

$x = \frac{9}{\sin 30^\circ}$

$= 18\text{m}$



$x^2 = 8^2 + 5^2$

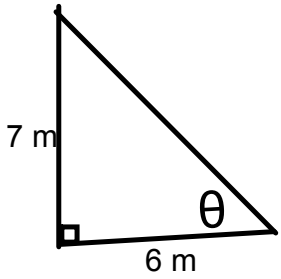
$= 64 + 25$

$= 89$

$x = \sqrt{89}$

$= 9.43\text{m}$

Finding angles



Homework

Lesson 4 Worksheet #1

Lesson 4 Worksheet #2