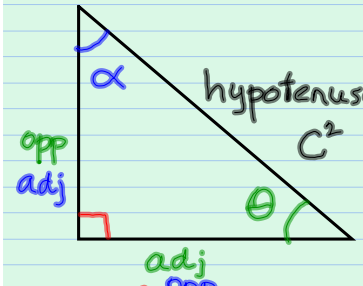


hyp

$c^2 = a^2 + b^2$

pythagorean theorem

- angle names - greek symbols

Common ones θ theta

α alpha

β beta

opposite - across from θ, α

adjacent - next to

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

SOHCAHTOA

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

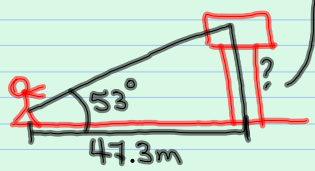
$\tan\theta = \frac{opp}{adj}$

Show Work

- diagram + label
- Show formula
- Substitute
- solve

Right Δ Worksheet

1.



$\theta = 53^\circ$

adj = 47.3m

opp = ?

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

$opp = adj \cdot \tan\theta$

$= 47.3 \tan 53$

$\approx \boxed{62.8\text{ m}}$

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

$\theta = \sin^{-1}\frac{opp}{hyp}$

$\frac{1}{x} = x^{-1}$

Area of a circle = πr^2

Cos -x

Sin -y