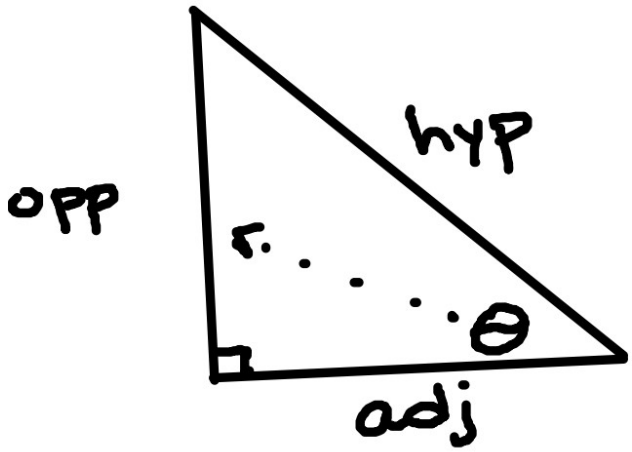
TRIG RATIOS

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

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

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



secant θ = sec θ

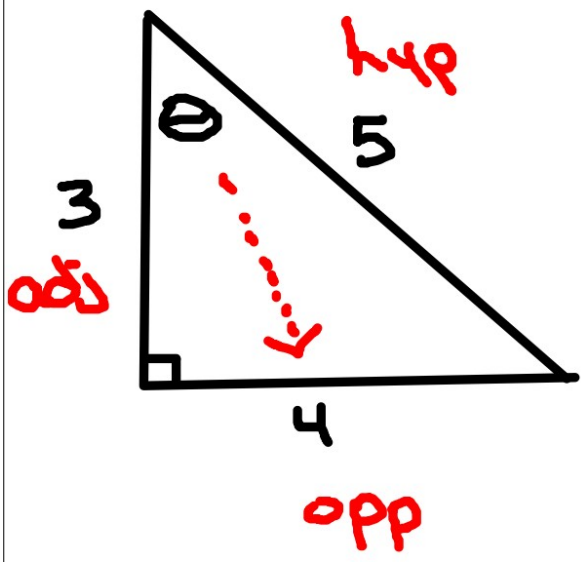
(Reciprocal of cosine θ)

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

cosecant θ = csc θ

(Reciprocal of sine θ)

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



$\sin\theta = \frac{4}{5}$

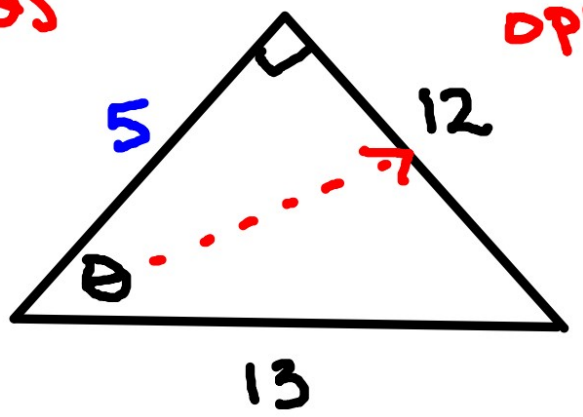
$\cos\theta = \frac{3}{5}$

$\tan\theta = \frac{4}{3}$

$\csc\theta = \frac{5}{4}$

$\sec\theta = \frac{5}{3}$

$\cot\theta = \frac{3}{4}$



$\sin\theta = \frac{12}{13}$

$\cos\theta = \frac{5}{13}$

$\tan\theta = \frac{12}{5}$

$\sec\theta = \frac{13}{5}$

$\csc\theta = \frac{13}{12}$

$\cot\theta = \frac{5}{12}$

Pythagorean Thm

$a^2 + b^2 = c^2$ (hyp)

* $a^2 + 12^2 = 13^2$

$a^2 + 144 = 169$

$\sqrt{a^2} = \sqrt{25}$ $a = 5$