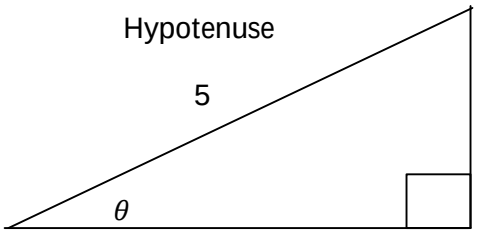
# M10 - 3.1 - Trig Notes

$\theta = \sin^{-1}(0.6) = \sin^{-1}\left(\frac{3}{5}\right)$

$sin\theta = \frac{O}{H}$

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




Sine Ratio

$sin\theta = \frac{O}{H}$

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

$sin\theta = 0.6$

$\theta = \sin^{-1}(0.6)$

$\theta = 36.9^o$

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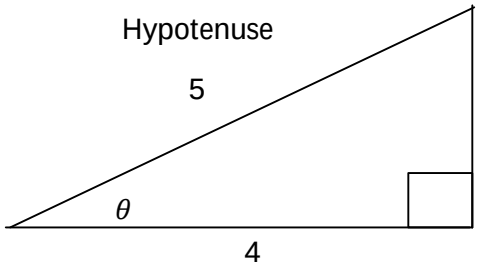
$cos\theta = \frac{A}{H}$

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




Cosine Ratio

$cos\theta = \frac{A}{H}$

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

$cos\theta = 0.8$

$\theta = \cos^{-1}(0.8)$

$\theta = 36.9^o$

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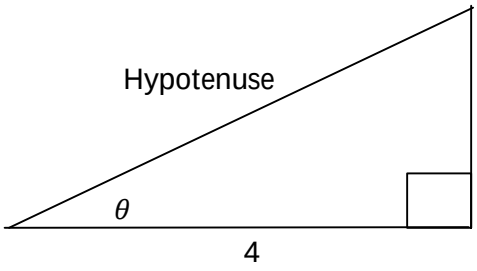
$tan\theta = \frac{Opp}{Adj}$

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




Tangent Ratio

$tan\theta = \frac{O}{A}$

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

$tan\theta = 0.75$

$\theta = \tan^{-1}(0.75)$

$\theta = 36.9^o$

Want to choose the part of SOH CAH TOA that has 2 pieces of info that we have, and one we are looking for.

# SOH CAH TOA