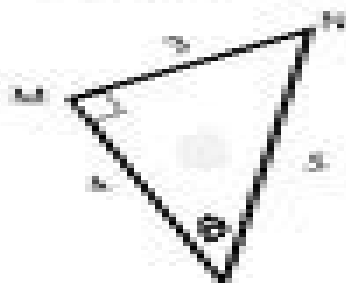# Trigonometric Ratios Notes
SOH CAH TOA

Example 1: What is the measurement of θ?
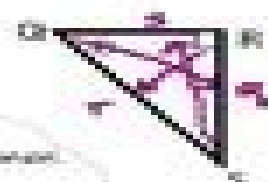

$$\sin \theta = \frac{3}{4} \longrightarrow \theta = \sin^{-1}\left(\frac{3}{4}\right) \approx 36.87$$

$$\cos \theta = \frac{4}{5} \longrightarrow \theta = \cos^{-1}\left(\frac{4}{5}\right) \approx 36.87$$

$$\tan \theta = \frac{3}{4} \longrightarrow \theta = \tan^{-1}\left(\frac{3}{4}\right) \approx 36.87$$

★ As long as you have two sides, you can find an angle no matter what.

Example 2: What are the measures of r and s given θ = 53.13° and c = 4?

$$\frac{\square}{\square} = \frac{OPPOSITE}{ADJACENT}$$

SINE!

$$\sin(53.13) = \frac{opp}{hyp} = \frac{4}{r}$$

$$r \cdot \sin(53.13) = \frac{4}{r} \cdot r$$

$$\frac{r \cdot \sin(53.13)}{\sin(53.13)} = \frac{4}{\sin(53.13)}$$

$$r = \frac{4}{\sin(53.13)}$$

In calculator, r ≈ 5

$$\tan(53.13) = \frac{opp}{adj} = \frac{4}{s}$$

$$s \cdot \tan(53.13) = \frac{4}{s} \cdot s$$

$$\frac{s \cdot \tan(53.13)}{\tan(53.13)} = \frac{4}{\tan(53.13)}$$

$$s = \frac{4}{\tan(53.13)}$$

In calculator, s ≈ 3

Geometry Ch 10 3 4 Sohcahtoa Key

Brian W. Stewart

Geometry Ch 10 3 4 Sohcahtoa Key:

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