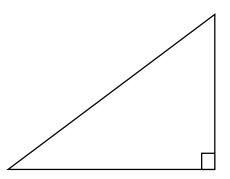
Main Ideas/ Questions

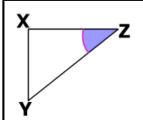
Triangle Labels of Trigonometry

Notes

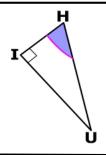
<u>Trigonometry</u> – The study of angles and sides in _____



Examples



- a. What side is opposite of the shaded angle?
- b. What side is adjacent to Angle Z?



- c. What side is opposite of the shaded angle?
- d. What side is adjacent to Angle H?

Trigonometry Ratios

Sine	Cosine	Tangent
02		\bigcap
50	H CAH T	UA
S - O	$C - \frac{A}{C}$	T - O
\parallel H	$O = \frac{1}{H}$	$r = \frac{1}{A}$

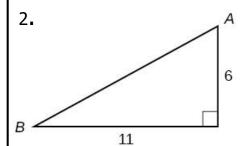
Main Ideas/ Questions Examples

Notes

29 21

20

- a. Find all 3 ratios for Angle A.
- b. Find all 3 ratios for Angle C.
- c. Did you notice anything?



В

- a. Find all 3 ratios for Angle A.
- b. Find all 3 ratios for Angle B.
- c. Did you notice anything again?
- 3. If the $sin(\theta) = \frac{3}{5}$, what is the $cos(\theta)$?

4. If the $tan(\theta) = \frac{7}{\sqrt{15}}$, what is the $sin(\theta)$?

Main Ideas/ Questions

Evaluating Trig Ratios

Notes

- 1. Evaluate sin(23) to the nearest thousandths.
- 2. Evaluate cos(30) to the nearest thousandths.
- 3. Evaluated tan(20) to the nearest thousandths.
- 4. Evaluate the cos(5) and sin(85) to the nearest thousandths.
- 5. Evaluate the sin(43) and cos(47) to the nearest thousandths.

Co-functions

Co-functions have the same _____.

$$sin(\theta) = cos(90 - \theta)$$

$$cos(\theta) = sin(90 - \theta)$$

$$tan(\theta) = \frac{1}{tan(90 - \theta)}$$

- 1. Without using a calculator, what would be equal to sin(25)?
- 2. Without using a calculator, what would be equal to cos(45)?
- 3. Without using a calculator, what would be equal to tan(30)?
- 4. Without a calculator, what would be equal to $\frac{1}{\tan(29)}$?