## Tuesday, April 16, 2019 deques

- Warm-up $\Delta$ angles sum to 180
- Find the missing angle measurements in the given triangles:

- What is Trigonometry?
- important vocabulary
- intro to triangles in a circle


## Objectives

Content: I will describe the relationships between sides and angles of a right triangle using trigonometry.
Social: I will listen well and take good notes.
Language: I will clearly write vocabulary in a way that I can understand.

## Naming Conventions for



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## Important Vocabulary

Trigonometry Unit Notes . The $90^{\circ} /$ right angle is indicated by
 the little box in the corner.

- The "angle of interest " (what we know or need to know) is indicated by $\theta$. (theta)
- The side opposite the right angle, which is the longest (I) side, is called the hypotenuse
- The side opposite $\theta$ is called the opposite.
- The side next to $\Theta$ which is not the hypotenuse is called the adjacent


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## Practice Labeling (unknown side = lower case of opposite letter)

1) 


3)

2)

4)

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## Brain Break

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## More Important Vocabulary



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## Practice Setting Up Ratios


2)

$$
\begin{aligned}
& \sin \theta=\frac{4}{c} \\
& \cos \theta=\frac{13}{c} \\
& \tan \theta=\frac{4}{13}
\end{aligned}
$$


4)

$$
\begin{aligned}
& \sin \theta=\frac{119}{c} \\
& \cos \theta=\frac{10}{c} \\
& \tan \theta=\frac{11.9}{10}
\end{aligned}
$$

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Objectives
Content: I will apply right triangle trigonometry to calculate missing angles and sides
Social: I will help those around me who do not understand.
Language: I will apply my definitions of trigonometry functions in practice problems.

## Check Notes Sheet


$\qquad$ * (what we know or need to know) is indicated by $\qquad$
The side $\qquad$ the right angle, which is the $\qquad$ side, is called the $\qquad$
The side opposite __ is called the $\qquad$
The side next to _ which is not the is called the


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