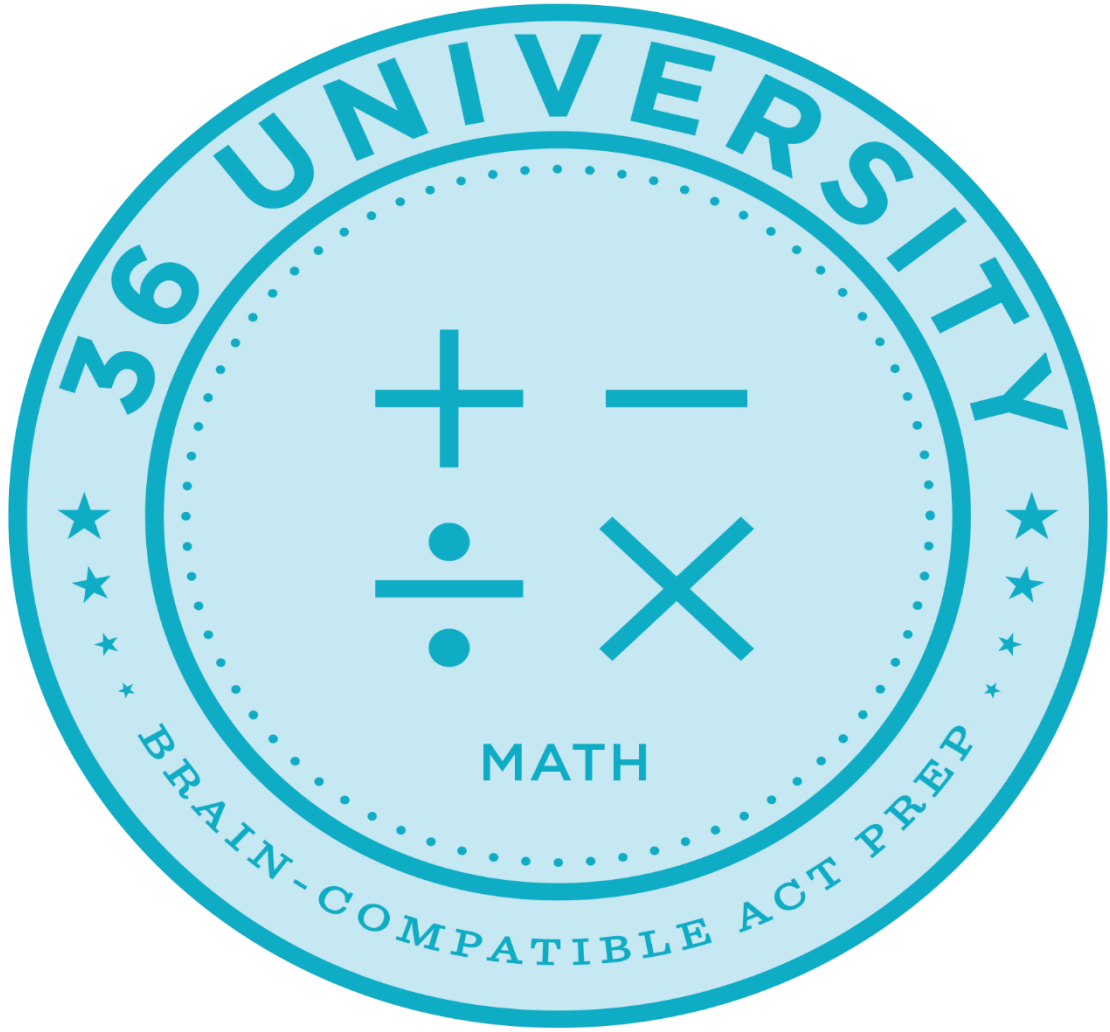




36U
NOTE-TAKING
GUIDES
2021-2022



RIGHT TRIANGLE TRIGONOMETRY

Frequency: ★★

I. The Concept of Trig

When angles in a triangle are determined, the shape of the triangle is set. This allows us to set up trig ratios for right triangles because ratios between side lengths are constant.

II. The Three Main Trig Ratios



SOHCAHTOA

or



$$\sin \theta = \frac{\text{opposite leg}}{\text{hypotenuse}}$$

$$\cos \theta = \underline{\hspace{2cm}}$$

$$S \frac{O}{H} \quad C \frac{A}{H} \quad T \frac{O}{A}$$

$$\tan \theta = \underline{\hspace{2cm}}$$

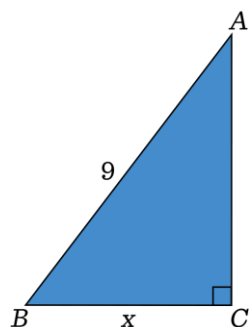
III. The Three Secondary Trig Ratios

$$\sin \theta = \frac{\text{opposite leg}}{\text{hypotenuse}} \quad \longrightarrow \quad \csc \theta = \underline{\hspace{2cm}}$$

$$\cos \theta = \frac{\text{adjacent leg}}{\text{hypotenuse}} \quad \longrightarrow \quad \sec \theta = \underline{\hspace{2cm}}$$

$$\tan \theta = \frac{\text{opposite leg}}{\text{adjacent leg}} \quad \longrightarrow \quad \cot \theta = \underline{\hspace{2cm}}$$

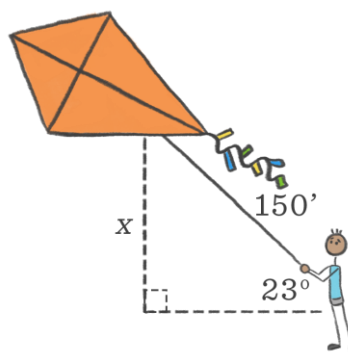
HOW WILL THIS LOOK ON THE ACT?



Find $\tan A$.

$AC =$

$\tan A = \underline{\hspace{2cm}}$



Find x .



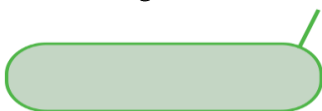
PRONOUN-ANTECEDENT AGREEMENT

Frequency Rating: ★★ ★

Pronouns must agree with their _____, just like verbs must agree with their subjects!



Rafting the Colorado River is fun. _____ swift water makes for quite an adventure.



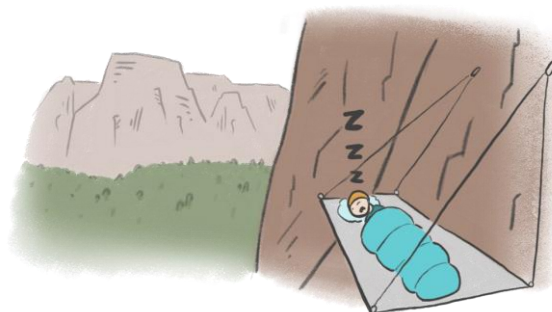
Keep in mind these three key differentiators when determining pronoun-antecedent agreement...

I. Is the Antecedent _____ or _____?

My friends enjoy hang gliding. _____ have spent years honing their skills.

II. Is the Antecedent a _____ or an _____?

Yosemite's El Capitan is a mecca for rock climbers. _____ sleep on its steep face during the long ascent.



(Be careful to refer to people as a _____, not a *which* or a *that*!)

III. Should the Pronoun be _____?

Louise enjoys climbing, but rappelling is _____ favorite.



DOUBLE PASSAGES

Frequency: 1 passage

Expect one of the four reading sets to have _____ instead of one larger passage.

I. Dealing with the Passages Separately

The questions accompanying the texts will be divided into _____ sets.

The first set will ask questions about the _____; the second set will ask questions about the _____, and the third set of questions will ask you about _____ between the passages.

You may want to read the _____ and answer the first set of questions before reading the second passage and answering the second and third question sets.



II. Connections Between the Passages

The last set of questions consists of a few items that will ask you to synthesize information from both texts.

Look for the _____ between the passages...

Do the texts have the same _____? If so, expect to be asked about the _____ displayed in the texts.

Do the passages cover the _____?

Is there a _____ that appears in both passages?



MULTIPLE Y-AXES

Frequency: ★★

Often, one set of input values is paired with more than one set of _____
 _____.

Instead of making separate graphs for each of those sets of outputs, it is often more efficient to plot the data on the same graph and use _____.

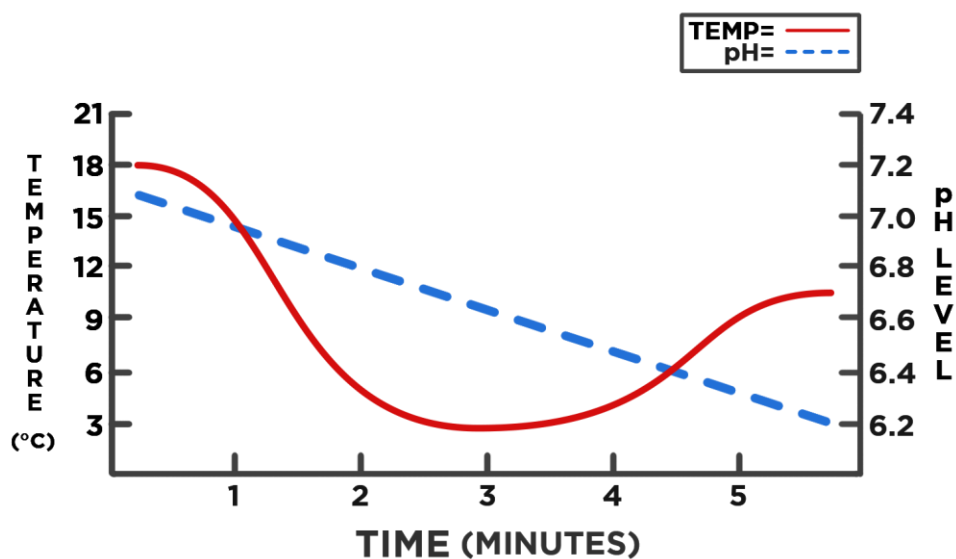
How Should You Handle Multiple Y-Axes Graphs?

Step 1: Utilize the Key

Use the key to match the graphs with their _____.

Step 2: Read Data Values

Can you find the pH reading at the two-minute mark? (Draw in arrows to find the pH value!)



At the 2-minute mark, the pH reads _____.