

WHICH WAY TO STEER?**WIND CORRECTION DIAGRAMMING**

Name _____

Class _____

OBJECTIVE

Understand the trigonometry underlying the wind triangle.

MATERIALS (Per Group)

- Card stock
- Ruler
- Protractor
- Tape
- Scissors

PROCEDURE

- “Wind Correction Worksheet Activity” (Length 22:50)
<https://safeYouTube.net/w/g3Uw>

Watch the video to observe a demonstration of the trigonometry that makes a wind triangle work. Answer the questions below.

QUESTIONS

1. As demonstrated in the video, what primary trigonometric function is used to calculate a wind correction for an aircraft flying through an air mass?
2. Does a person need to understand advanced mathematics to be a good pilot?
3. Create your own wind triangle scenario by using a true course, wind velocity, and airspeed that you make up. Try determining the wind correction angle using the wind triangle method from the lesson and the trigonometric method. Online flight computers such as this one (<https://e6bx.com/e6b/>) allow you to check your answer easily.