

# Tim's Air Navigation Simulator

## VOR EXERCISE

This assignment requires the use of "Tim's Air Navigation Simulator," which can be found online at [www.visi.com/~mim/nav](http://www.visi.com/~mim/nav) or by typing the name into a search engine.

1. Using the RED VOR, set the OBS selector to 360.
2. Position the airplane north of the RED VOR and notice the position of the needle and flag on the VOR display. Repeat with the following positions:
  - Northeast
  - East
  - Southeast
  - South
  - Southwest
  - West
  - Northwest

Regardless of the airplane's heading, the needle and flag displayed the quadrant in which the aircraft was placed.

3. Place the BLUE VOR in the center of the gray map and the airplane in the southeast corner.
  - Turn the airplane's heading until it is heading 360.
  - Press the "R" key to display the VOR radials.
  - Press the "T" key for tracing.
  - Select a course of 320. (You should have a TO indication.)
  - Pick an intercept angle of 45 degrees. (If you are stuck, think 320-45 for your heading.)
  - Set airspeed to 120 knots.
  - Intercept the 320 course TO the station. (Don't forget to lead the turn.)
  - Watch what happens when the airplane crosses the station.
4. **Now comes the hard part. Print a copy of the screen shot showing how well you intercepted and tracked the course.** You can try using the "Print Screen" key on the keyboard and pasting it into MS Word.
5. Fly the same course but set the wind to 360 at 25 knots. Print a copy of the screen shot showing how well you intercepted and tracked the course.