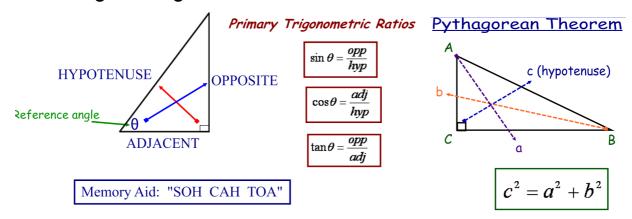
REVIEW - What formula do I use? Ask yourself...

- Is it a right triangle? If Yes, then...



- If you are finding a side, do you have SAS? If Yes, then...

Law of Cosines

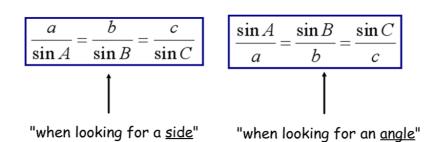
$$a^2 = b^2 + c^2 - 2bc \cos A$$

- If you are finding an angle, do you have SSS? If Yes, then...

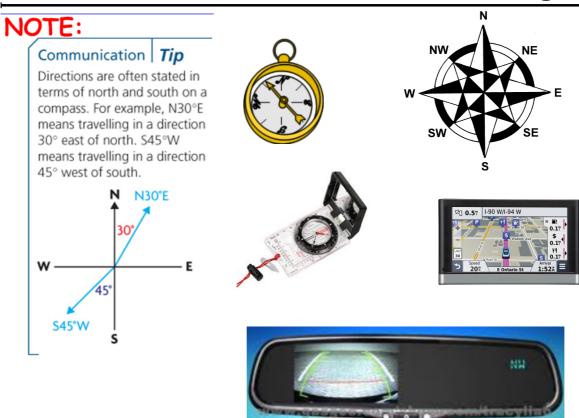
Law of Cosines (rearranged)

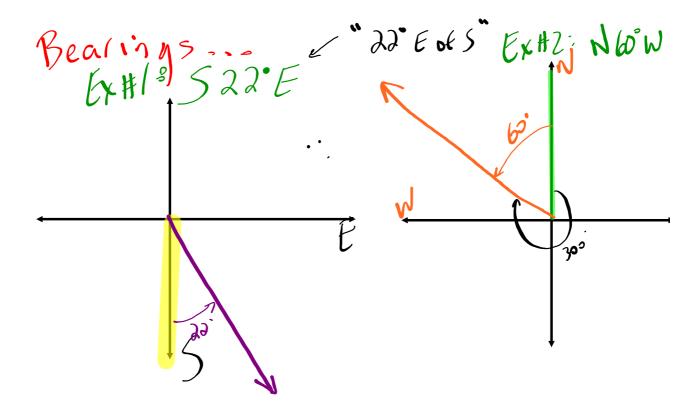
$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

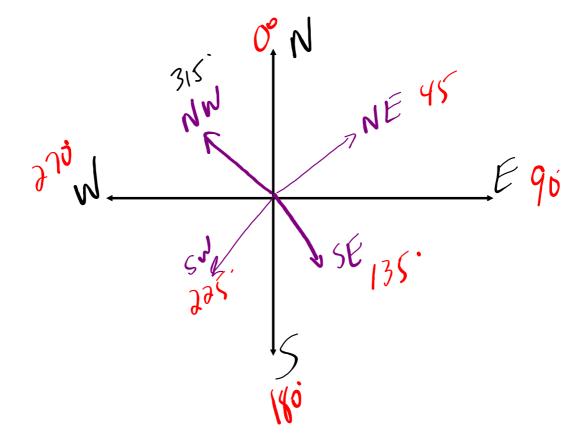
- Anything else...use your Law of Sines!



MORE APPLICATIONS... Bearings







Booklet Questions... 10.12: #8 - 12

Let's do #8 TOGETHER...

In an airport control tower A, 2 planes at B and C are located at the same altitude on a radar screen. The range finder determines one plane to bear N60°E at 100 km while the other bears S50°E at 160 km. How far apart are the planes from each other?

