

$$\#11) \frac{\cot x}{1 - \tan x} + \frac{\tan x}{1 - \cot x} = 1 + \tan x + \cot x$$

#12) A ship sights a lighthouse directly to the south. A second ship, 9 miles east of the first ship, also sights the lighthouse. The bearing from the 2nd ship to the lighthouse is $S34^\circ W$. How far is the 1st ship from the lighthouse?

#13) A boat leaves the entrance to the harbor and travels 150 miles on a bearing of $N53^\circ E$. How many miles North & how many miles East has the boat traveled?