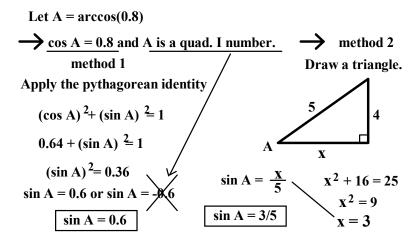
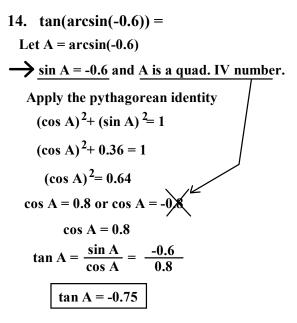
Find the exact value of each without the use of a calculator.

8. 
$$sin(arccos(0.8)) = 0.6$$

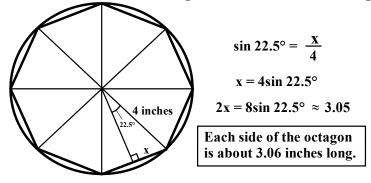
There are two 'common methods' used to solve this type of problem.





Solve each of the following problems.

21. A regular octagon is inscribed in a circle with a 8 inch diameter. What is the length of each side of the octagon?



22. A passenger in an airplane flying at a height of 30,000 feet sees two towns directly to the right of the plane. The angles of depression to the towns are 40° and 65°. How far apart are the towns?

