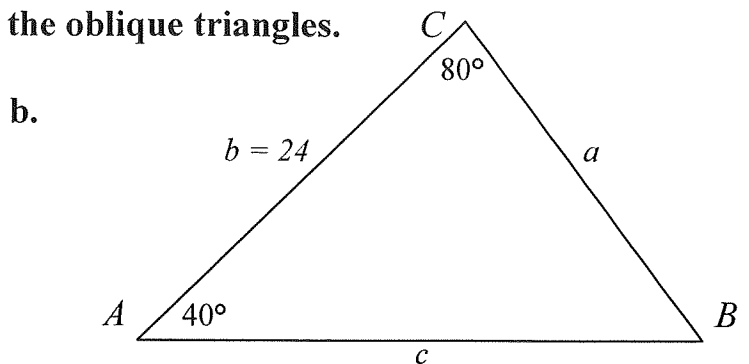
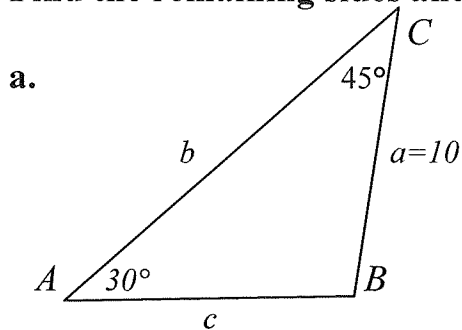


Practice 9.2: The Law of Sines

1. Find the remaining sides and angles of the oblique triangles.



c. $A = 50^\circ, C = 20^\circ, b = 200$

d. $A = 10^\circ, B = 50^\circ, a = 12$

2. Use the given information to find the number of triangle possible.

a. $A = 60^\circ, b = 20, a = 19$

b. $A = 60^\circ, b = 20, a = 21$

c. $A = 30^\circ, b = 10, a = 5$

d. $A = 30^\circ, b = 10, a = 4$

e. $A = 53^\circ, b = 25, a = 28$

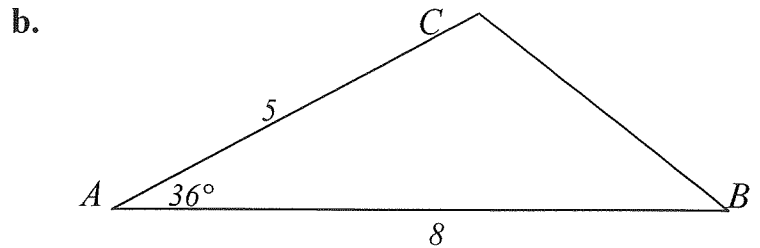
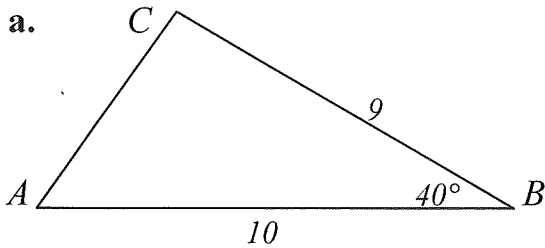
f. $A = 53^\circ, b = 25, a = 22$

3. Find the remaining sides and angles of the oblique triangles (2).

a. $A = 30^\circ, b = 20, a = 15$

b. $A = 45^\circ, b = 10, a = 8$

4. Find the Area of the triangles.

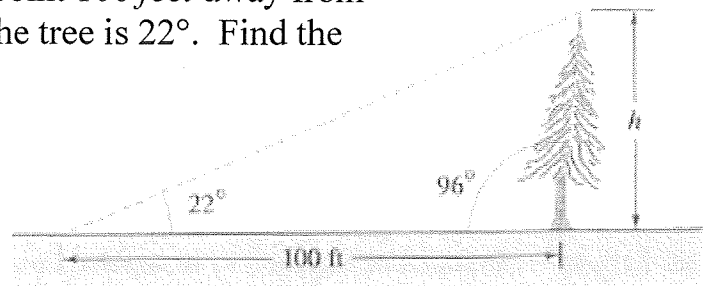


c. $C = 125^\circ, b = 10, a = 5$

d. $A = 45^\circ, B = 10^\circ, a = 4$

5. The following information about of a triangular parcel of land is given at a zoning board meeting. "One side is 450 *meters* long, and another is 120 *meters*. The angle opposite the shorter side is 30° ." Could this be true?

6. A tree grows leaning 6° from vertical. At a point 100 *feet* away from the tree, the angle of elevation to the top of the tree is 22° . Find the height h of the tree.



7. A bridge is being built across a small lake from B to C . The bearing between them is $S 41^\circ W$. From point A , 100 yards from B , the bearings to B and C are $S 74^\circ E$ and $S 28^\circ E$. Find the distance from B to C .

