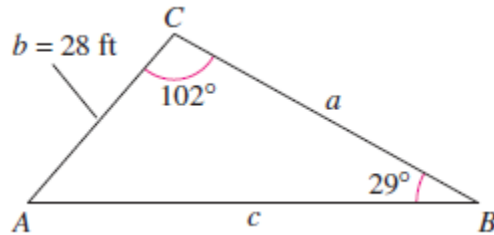
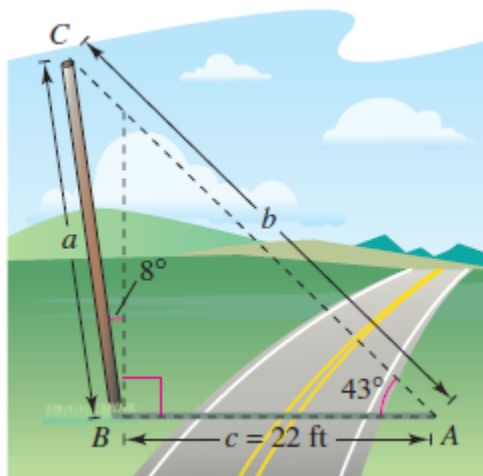


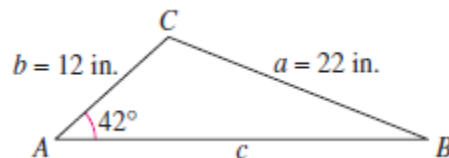
- 1) For the triangle below, find all the remaining sides and angle using the Law of Sines.



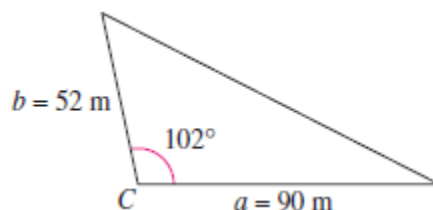
- 2) A pole tilts toward the sun and casts a shadow as showing in the picture below. How tall is the pole using the Law of Sines?



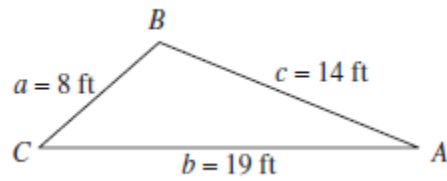
- 3) For the triangle below, find all the remaining sides and angle using the Law of Sines.



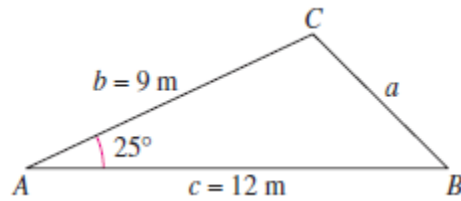
- 4) Find the two triangles measurements with  $a = 12$  meters,  $b = 31$  meters, and  $A = 20.5^\circ$ .
- 5) How many triangles are formed by the known measurements of  $a = 15$ ,  $b = 25$ , and  $A = 85^\circ$ .
- 6) Find the area of the oblique triangle below.



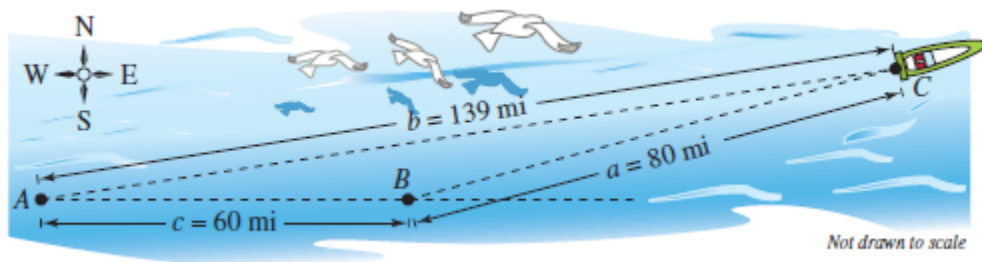
- 7) Find the measurements of the three angles of the triangle below using the Law of Cosines.



- 8) Find the remaining angles and side using the Law of Cosines.



- 9) Find Angle B in the picture below using the Law of Cosines.



- 10) Use Heron's Area Formula to find the area of a triangle with sides of lengths  $a = 43$  m,  $b = 53$  m, and  $c = 72$  m.