PreCalculus

Name_____

WS: 6.1 Extra Practice

Date_____Block_____

Solve the triangle for all angles and sides.

1.)

	(If needed)
$m\angle A = 28°$	$m\angle A = 28°$
$m\angle B =$ _____	$m\angle B =$ _____
$m\angle C =$ _____	$m\angle C =$ _____
$a = 18$ cm	$a = 18$ cm
$b =$ _____ cm	$b =$ _____ cm
$c = 25$ cm	$c = 25$ cm

Solve the triangle for all angles and sides.

2.)

	(If needed)
$m\angle A =$ _____	$m\angle A =$ _____
$m\angle B =$ _____	$m\angle B =$ _____
$m\angle C = 70°$	$m\angle C = 70°$
$a = 18$ cm	$a = 18$ cm
$b =$ _____ cm	$b =$ _____ cm
$c = 15$ cm	$c = 15$ cm

Solve the triangle for all angles and sides.

3.)

	(If needed)
$m\angle A = 41°$	$m\angle A = 41°$
$m\angle B =$ _____	$m\angle B =$ _____
$m\angle C =$ _____	$m\angle C =$ _____
$a = 9$ cm	$a = 9$ cm
$b =$ _____ cm	$b =$ _____ cm
$c = 6$ cm	$c = 6$ cm

Solve the following word problem.

4.) The tallest tree in the forest is 150 feet from the water tower. Unfortunately in a lightning storm the tallest tree was struck and caught on fire. The ranger needs to go from his tower to the water tower to get the water to put out the fire. How far is it from the Ranger's Tower to the Water Tower? (nearest foot)

Water
Tower

97°

150 ft

Ranger's Tower

34°
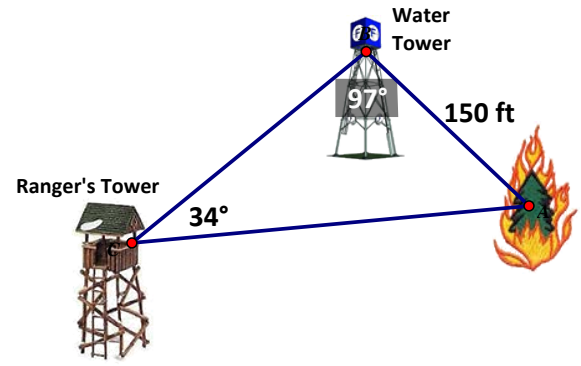
5.) A surveyor is able to gather some information about the terrain around a river. How far is it across the river from A to B? (to the nearest meter)

B   275 m   C

105°   33°

A