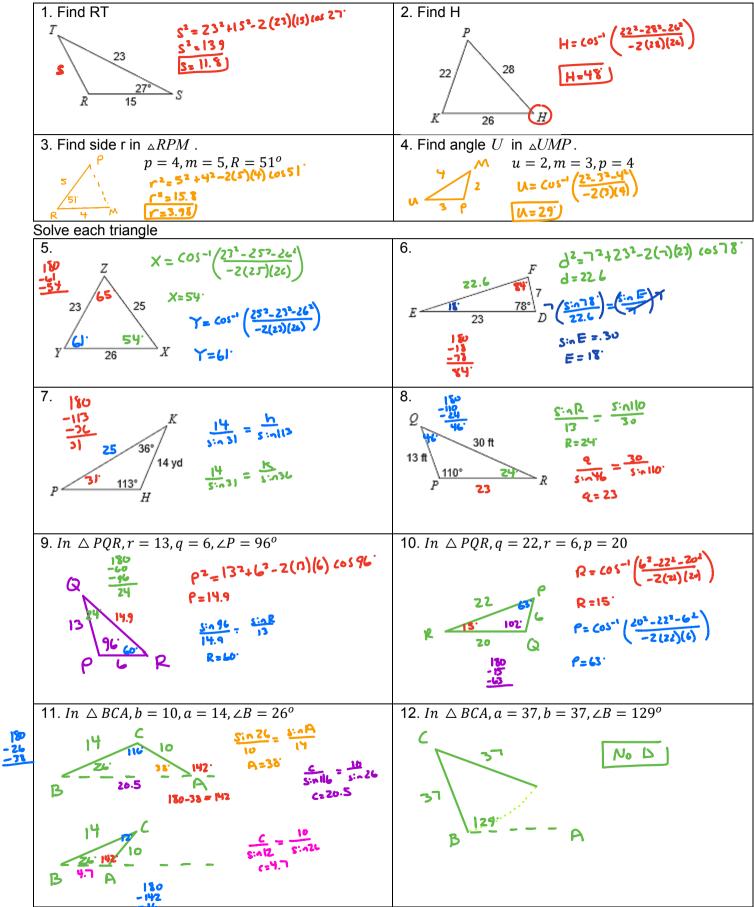
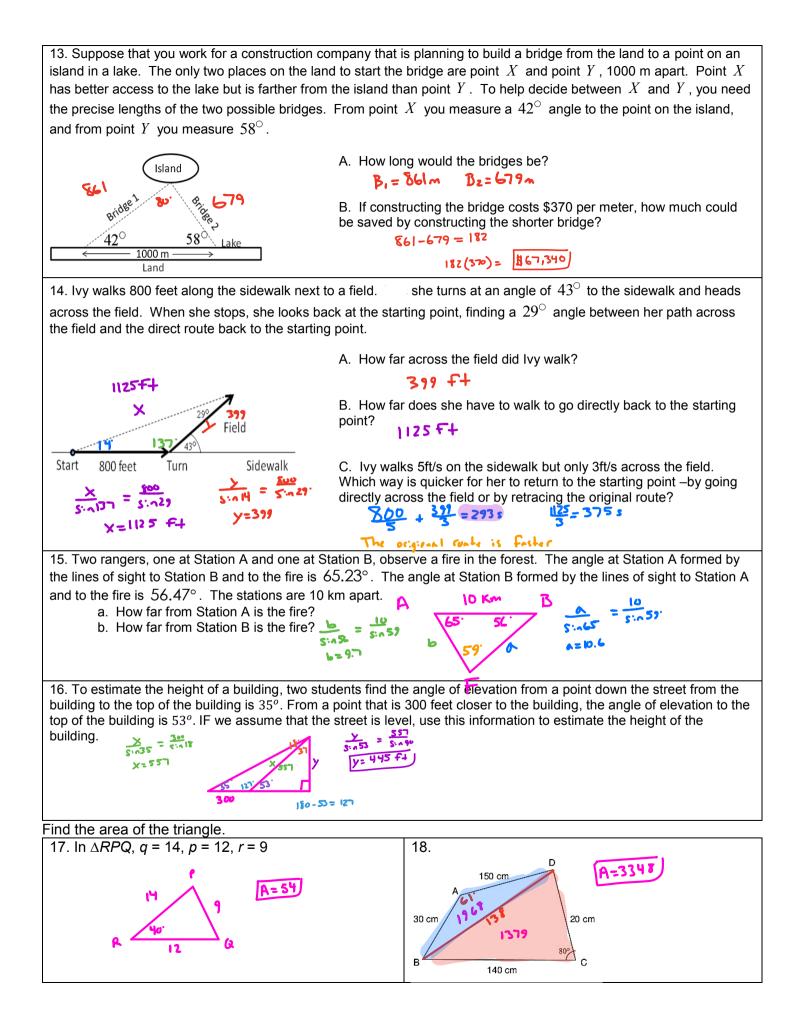


Block:







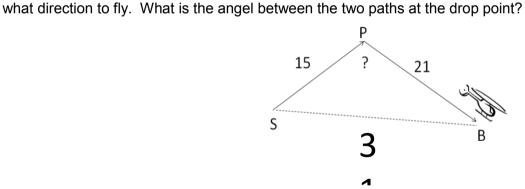
Extra Practice

23.  $\angle B = 30^{\circ}, b = 5.2, c = 10.1$ 

Find the indicated measure	
19. Angle $G$ in $\triangle MEG$ if	20. Side k in $\triangle HJK$ if
m = 5cm, e = 6cm, and g = 8cm	$h = 8m, j = 6m, and K = 172^{\circ}$
Solve each triangle	
21. $a = 27, b = 35, \ \angle C = 71^o$	22. $a = 5, b = 4, c = 7$

$25. \angle A =, b = 10, a = 64$	26. $\angle A = 27.3^{\circ}, b = 32.9, a = 27.4$	
27. Miguel flies a helicopter to drop supplies to stranded flood victims. He will fly from the supply depot, S, to		
the drop point P. Then he will return to the helicopter's base at B, shown in figure. The drop point is 15		
miles from the supply depot. The base is 21 miles from the drop point. It is 33 miles between the supply		
depot and the base. Because the return flight to the base will be made after dark, Miguel wants to know in		

**24**.  $\angle A = 73^{\circ}, b = 12.8, a = 12.5$ 



28. Juan and Romelia are standing at the seashore 10 miles apart. The coastline is a straight line between them. Both can see the same ship in the water. The angle between the coastline and the line between the ship and Juan is 35 degrees. The angle between the coastline and the line between the ship and Romelia is 45 degrees. How far is the ship from Juan?

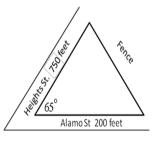
29. Jack is on one side of a 200-foot-wide canyon and Jill is on the other. Jack and Jill can both see the trail guide at an angle of depression of 60 degrees. How far are they from the trail guide?

30. Fred, Barney and Wilma are camping in their tents. If the distance between Fred and Barney is 153 feet, the distance between Fred and Wilma is 201 feet, and the distance between Barney and Wilma is 175 feet, what is the angle between Barney, Wilma and Fred?

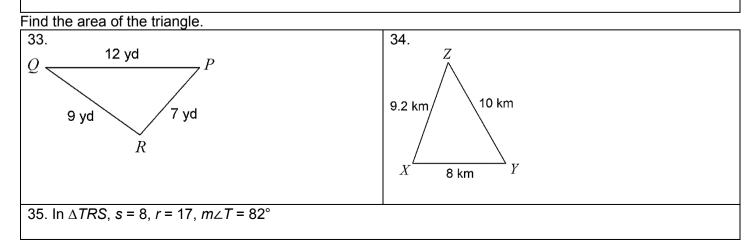
31. A triangular parcel of ground has sides of lengths 725 feet, 650 feet, 575 feet. Find the measure of the largest angle.

32. A baseball player in center field is standing approximately 330 feet from the television camera that is directly behind home plate. A batter hits a fly ball that goes to the wall 420 feet from the camera. Approximate how far the center fielder has to run to make the catch if the camera turn  $8^{\circ}$  to follow the play.

36. Gus works for a fence company. He has the job of pricing a fence to go across a triangular lot at the corner of Alamo and Heights Streets, as shown. The streets intersect at a  $65^{\circ}$  angle. The lot extends 200 ft from the intersection along Alamo and 750 ft from the intersection along Heights.



- A. How long will the fence be?
- B. How much will it cost his company to build it if fencing costs \$3.75 / ft?



C. What price should he quote if they want to make 35% profit?