Name: _____ # _____

Geometry: Period _____
Ms. Pierre
Date: _____

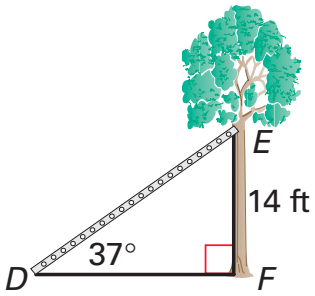
Solving Right Triangles

Today's Objective

SWBAT use trigonometric ratios for acute angles in right triangles to find missing angles and missing sides.

Example 1

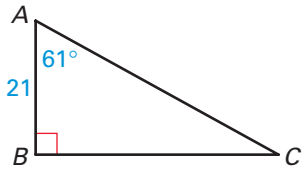
Solve the right triangle below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to the nearest degree.



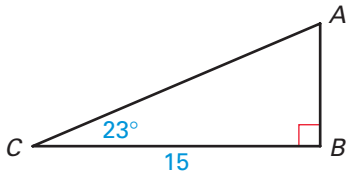
☑ Check for Understanding

Solve the right triangles below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to tl nearest degree.

a.)



b.)



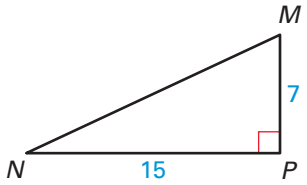
Example 2

Use the diagram to find the indicated measurement. Round lengths to the nearest tenth, and angles to the nearest degree.

1. $\overline{MN}$

2. $\angle M$

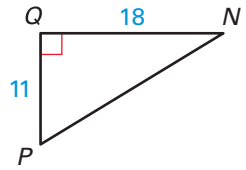
3. $\angle N$



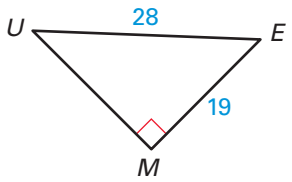
☑ Check for Understanding

Solve the right triangles below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to the nearest degree.

a)



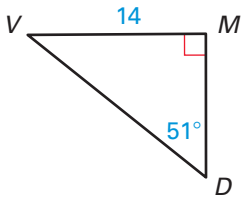
b)



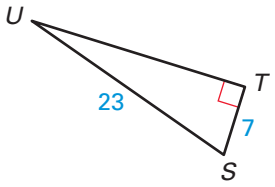
Guided Practice

Solve the right triangles below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to the nearest degree.

1.



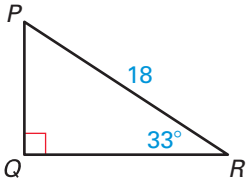
2.



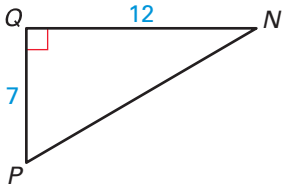
Independent Practice

Solve the right triangles below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to tl nearest degree.

1.



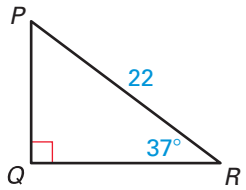
2.



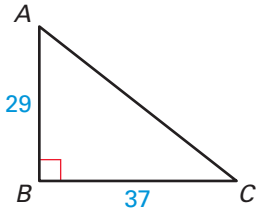
Home Work

Solve the right triangles below by finding **ALL** the unknown measures. Round lengths to the nearest tenth, and angles to the nearest degree.

1.

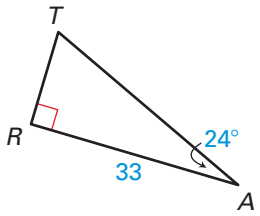


2.



Home Work

3.



4.