Name:	#	
-		

Geometry: Period \_\_\_\_\_ Ms. Pierre

Date: \_\_\_\_\_

#### **Finding Missing Sides**

#### Today's Objective

SWBAT use trigonometric ratios for acute angles in right triangles to find missing side lengths.



#### **Example 1**

Use a trigonometric ratio to find the value of x in the diagram Round your answer to the nearest tenth



#### Check for Understanding

Use a trigonometric ratio to find the value of x in each diagram. Round your answer to the nearest tenth.



# Guided Practice

Use a trigonometric ratio to find the value of x in each diagram. Round your answer to the nearest tenth.



### Example 2

Find the height and length of the base of the ramp shown. Round your answer to the nearest tenth.



## Check for Understanding

In example 3 above, suppose the length of the ramp is 18 fee Find the height and length of the base of the ramp. Round your answer to the nearest tenth.





Use a trigonometric ratio to find the variables in each diagram. Round your answer to the nearest tenth.



## Independent Practice

1. Use a trigonometric ratio to find the value of x in the diagram. Round your answer to the nearest tenth.



2. Use a trigonometric ratio to find each variable in the diagram. Round your answer to the nearest tenth.



## A Home Work

Use a trigonometric ratio to find the value of x in the diagram. Round your answer to the nearest tenth.

11 m

43

24



# Home Work

5. Find the height of the lamppost to the nearest inch.



6. Use a trigonometric ratio to find the variable in each diagram. Round your answer to the nearest tenth.

