**Name: Period: Date:**

**Trigonometric Mini Golf**

Objective: The students will use their knowledge on the trigonometric rations to calculate unknown lengths and sides in various arrangements of triangles.

Materials:

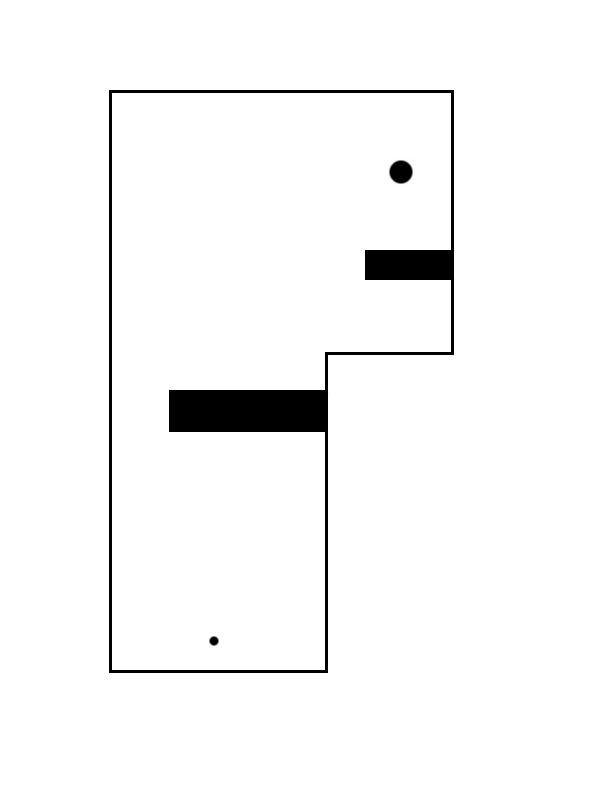
* Golf Hole Packet
* Dry Erase Marker
* Overhead sheet
* Protractor
* Ruler
* Wipe
* Graphing Calculator

Directions:

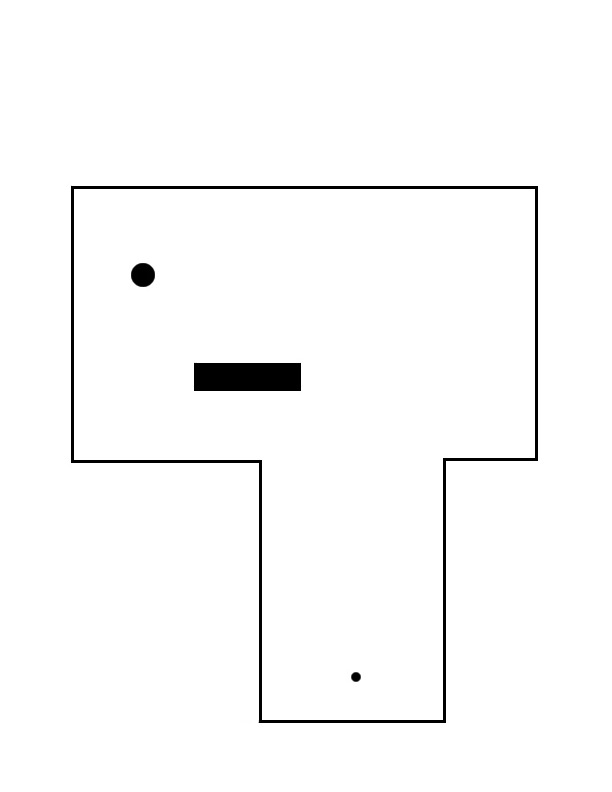
1. Get with your partner and collect your materials.
2. For each Hole:

* Using the dry erase marker and overhead sheet, draw the shortest distance.
* When you think you found the shortest distance, trace the line onto the paper.
* Calculate the distance.
* Segment path into right triangles.
* Measure and record the lengths of each leg with your ruler.
* Use trigonometric functions and rations to solve for every right triangle and record your answers.

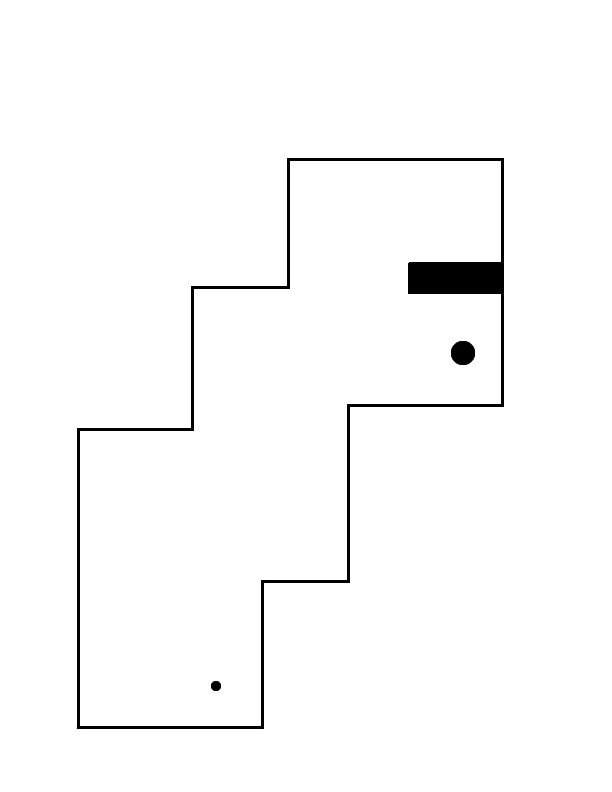
**Hole One:**



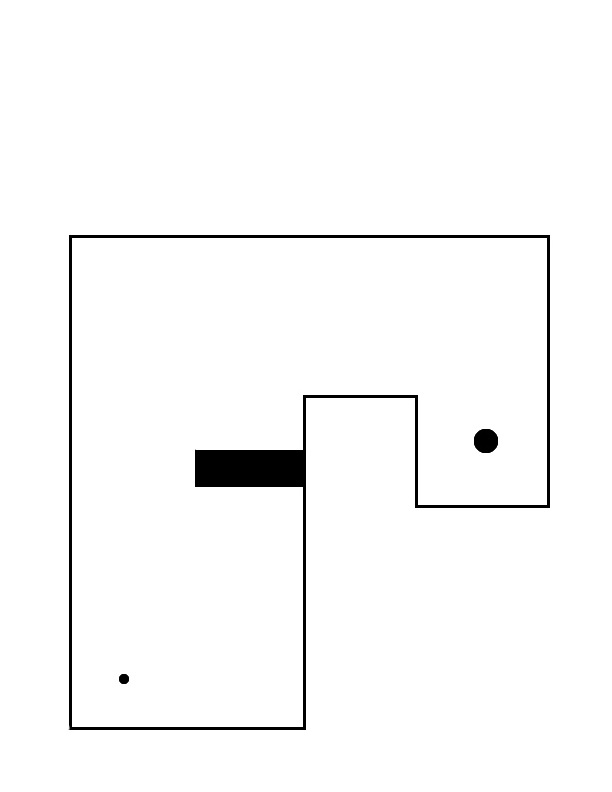
**Hole Two:**



**Hole Three:**



**Hole Four:**



Here is an example:

