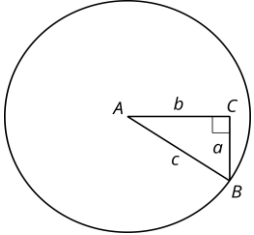


AMI Lesson 2: Revisiting Right Triangles

2.1: Notice and Wonder: A Right Triangle

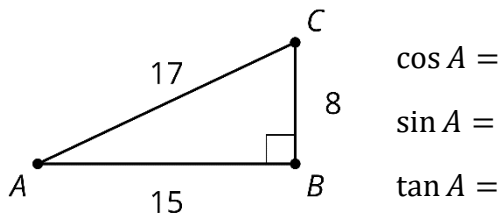
What do you notice?

What do you wonder?

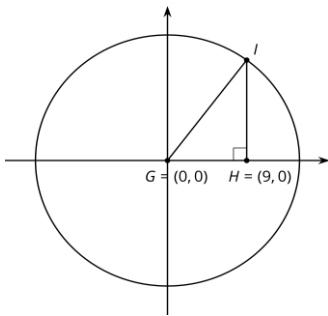


2.2: Recalling Right Triangle Trigonometry

1. Find $\cos(A)$, $\sin(A)$, and $\tan(A)$ for triangle ABC .



2. Sketch a triangle DEF where $\sin(D) = \cos(D)$ and E is a right angle. What is the value of $\tan(D)$ for this triangle? Explain how you know.
3. If the coordinates of point I are $(9,12)$, what is the value of $\cos(G)$, $\sin(G)$, and $\tan(G)$ for triangle GHI ? Explain or show your reasoning.

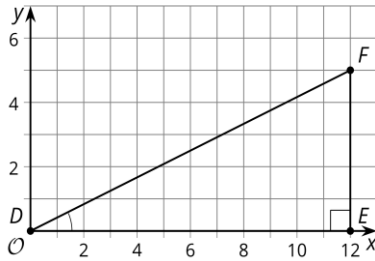


2.3: Shrinking Triangles

NAME

PreCal AMI Day 3 THURSDAY, MARCH 19, 2020

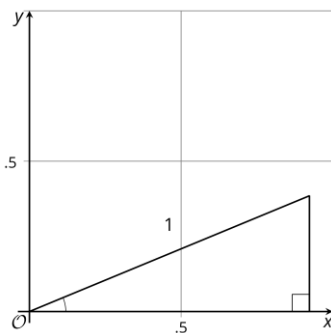
1. What are $\cos(D)$, $\sin(D)$, and $\tan(D)$? Explain how you know.



2. Here is a triangle similar to triangle DEF .



- a. What is the scale factor from $\triangle DEF$ to $\triangle D'E'F'$? Explain how you know.
- b. What are $\cos(D')$, $\sin(D')$, and $\tan(D')$?
3. Here is another triangle similar to triangle DEF .



- a. Label the triangle $D''E''F''$.
- b. What is the scale factor from triangle DEF to triangle $D''E''F''$?
- c. What are the coordinates of F'' ? Explain how you know.
- d. What are $\cos(D'')$, $\sin(D'')$, and $\tan(D'')$?