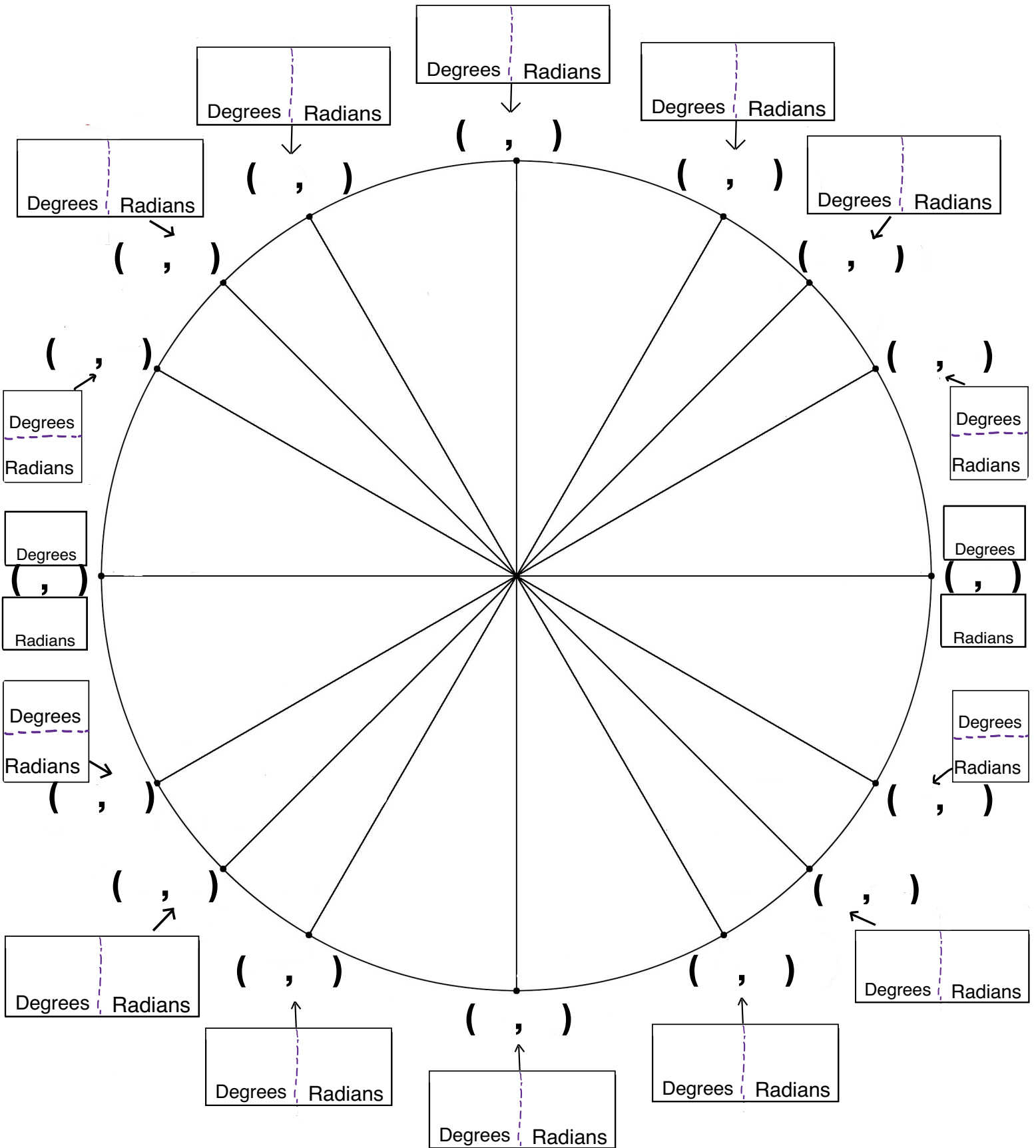


Constructing the Unit Circle

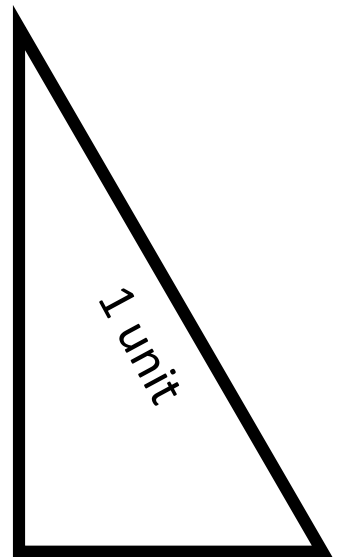
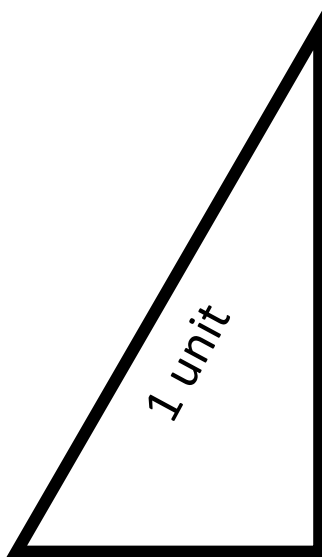
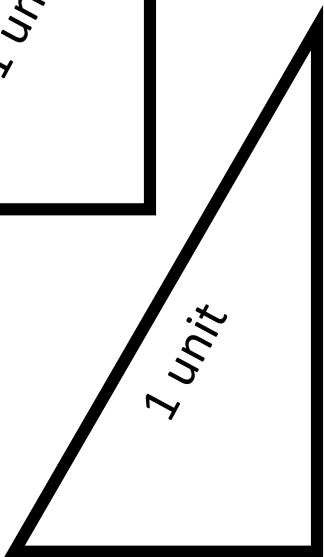
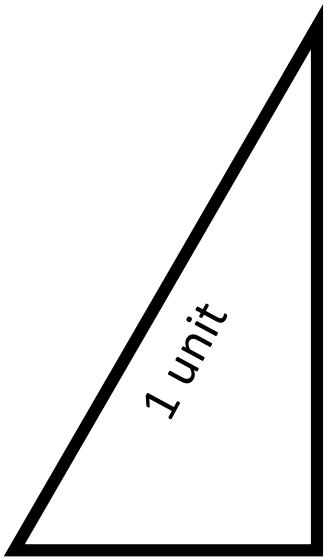
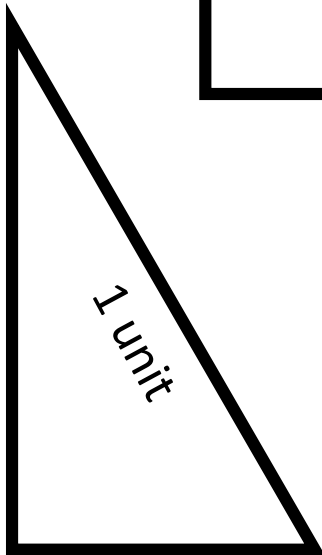
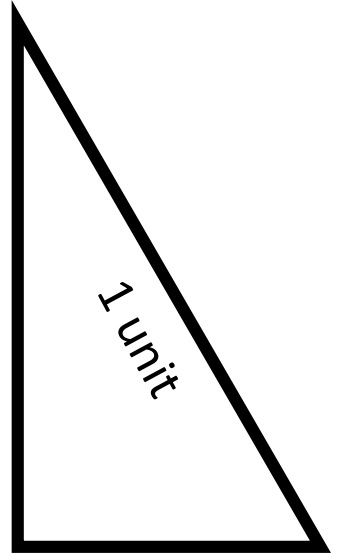
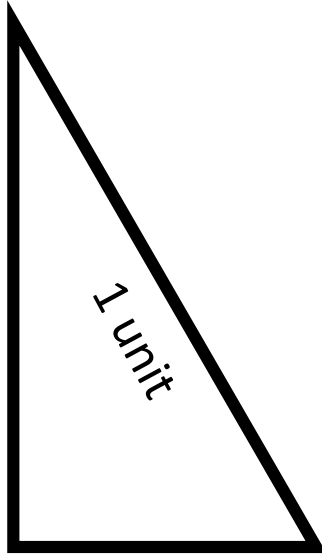
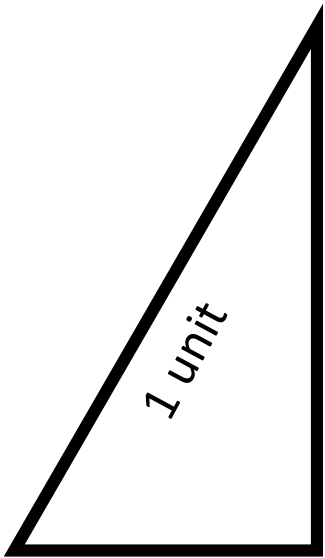
- The unit circle is a circle with a radius of one unit.
- It can be a useful tool that condenses a lot of information about trig function values into one picture.
- Your goal is to figure out the coordinates of some points on the unit circle.
- Use the triangles you've been given (which are scaled down versions of your special triangles where each hypotenuse is one unit) as tools.

Tips:

- It might be useful to start by labeling the angles on your triangles and around your unit circle.
- It would also be a good idea to figure out the lengths of the legs in your triangles and label them.
- Work one quadrant at a time. You can arrange your triangles in your unit circle and tape them in place at the center.



30-60-90° Triangles



45-45-90° Triangles

