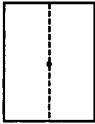


# Honors Geometry

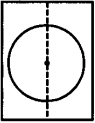
## Problem of the Week #6 —Yin Yang

Due Monday October 29<sup>th</sup>, 2018 at the start of class

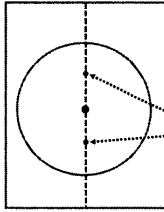
Use the set of directions below to create a yin yang symbol. Be sure to use a compass and straightedge to construct each of the steps. Decorate your symbol to be a personal statement of how opposite qualities express themselves in your life. Explain your symbol and artwork on a separate piece of paper.



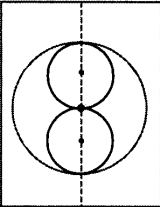
Fold the paper in half and crease. Mark a point on the crease. This point will be the center of the circle.



Use the compass to make a circle on the paper that reaches almost to the edge.

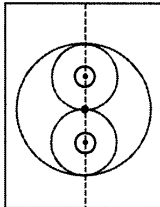


Construct the midpoints between the center and each edge of the circle. The construction arcs should be very light so that you can erase them easily.

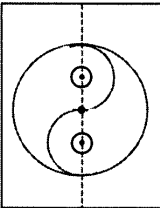


Use both midpoints as the centers of two smaller circles. Make the circles with your compass.

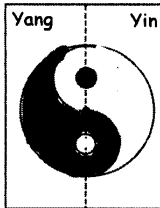
The smaller circles should be tangent to the bigger circle and the center point--they should not cross over.



Now make two smaller circles inside, using the midpoints as centers again.



Now, erase half of each of the middle circles as shown.



Choose two colors, one lighter and one darker and color the spaces like this. To make it a more interesting personal expression of yourself, choose a theme or images that represent opposites and decorate your symbol with them!