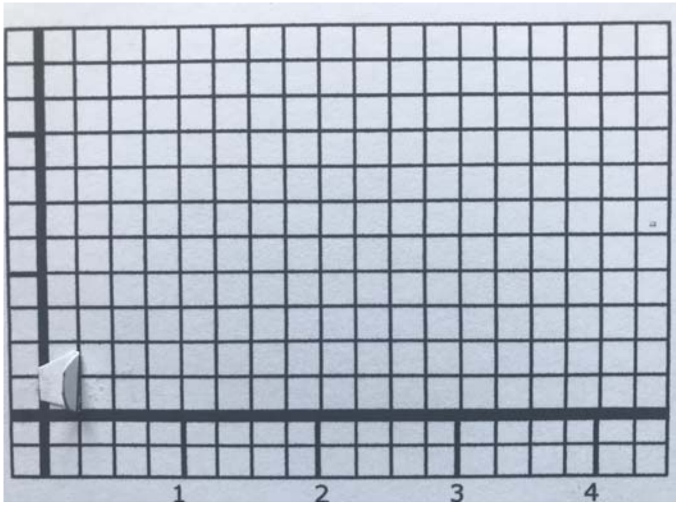
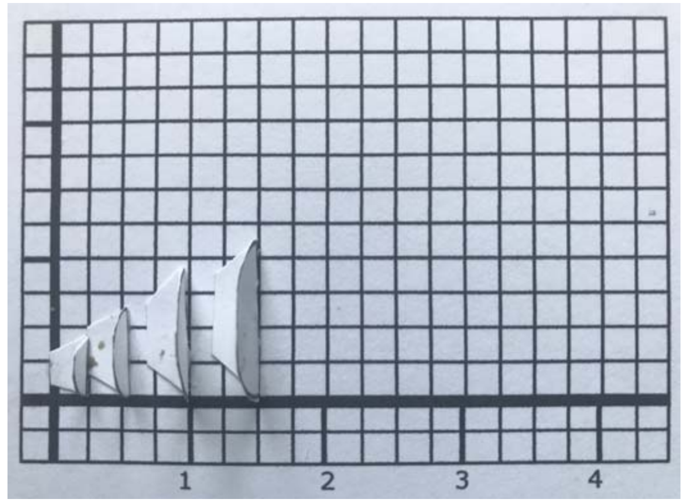
General Directions

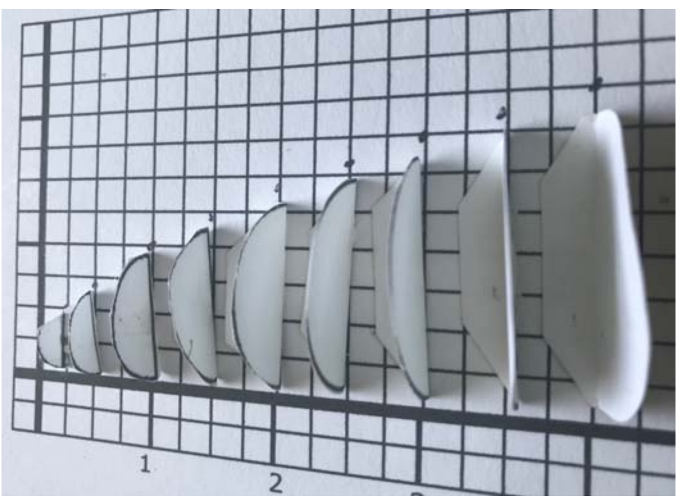


Step 1: After students cut out their nine similar figures they should begin gluing them on to the first quadrant. This picture illustrates the gluing of the first shape at x = 0.25. The edge on the coordinate grid will be approximately

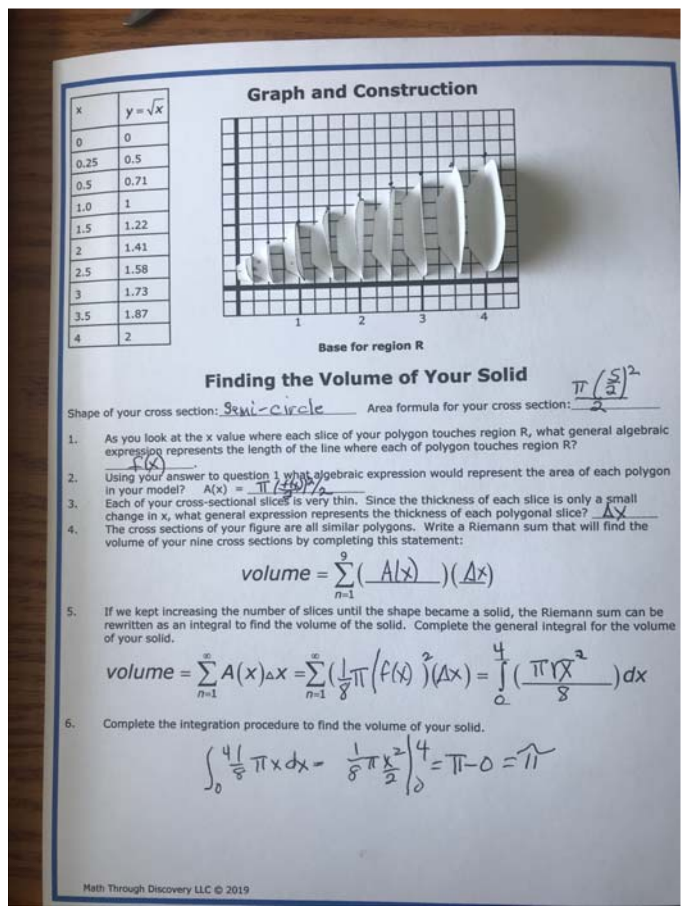
$\sqrt{0.25} = 0.5$.



Step 2: Continue to glue additional cross sections at the appropriate x value. Each edge against the coordinate axis will be approximately the square root of that x-value.



Step 3: Continue to add additional cross section until all 9 have been glued down.



Step 4: Complete the questions below the figure. Then have students collect data on the Gathering All Information page.