

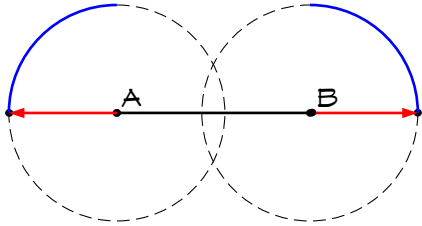
DRAWING A 3-CENTERED ARCH WITH KNOWN RADII




LARGE RADIUS 
 SMALL RADIUS 



Step 1: Determine the desired length of both the small and large radius that will be used to make up the arch.

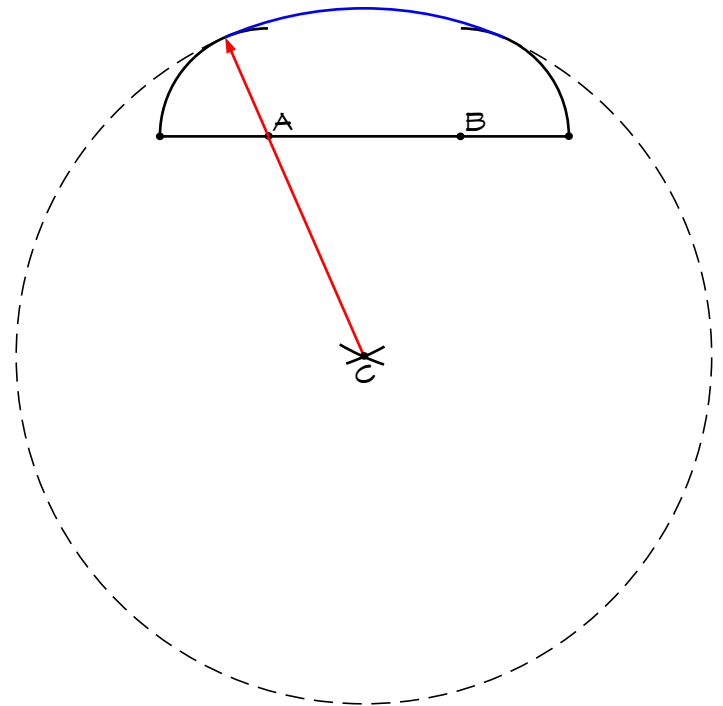
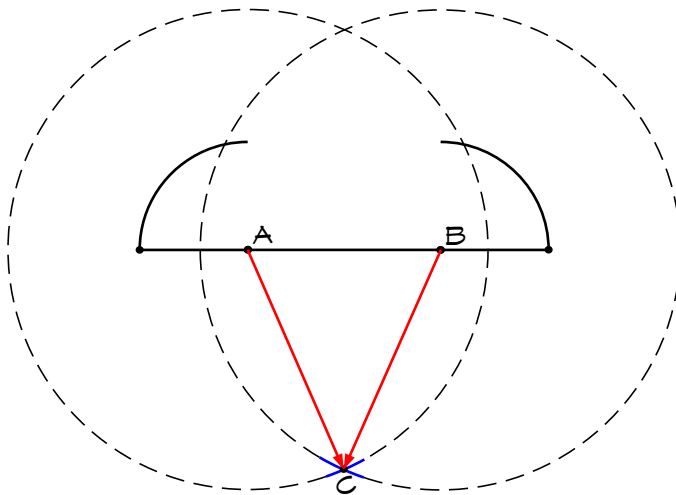
Step 2: Draw out the spring line and use the length of the desired small radius to locate points A and B.



LARGE RADIUS 
 SMALL RADIUS  
 NEW RADIUS

Step 3: Using points A and B as centers, draw quarter arcs using the desired small radius.

Step 4A: To find point C, first subtract the length of the small radius from the length of the large radius.



Step 4B: Use that result to draw small arcs with points A and B as centers.

Step 5: Using point C as a center, draw an arc using the large radius to close off the top of the arch.