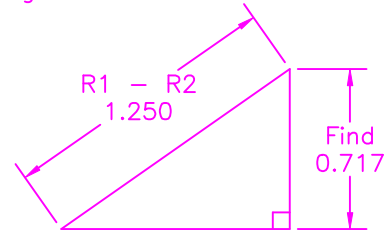
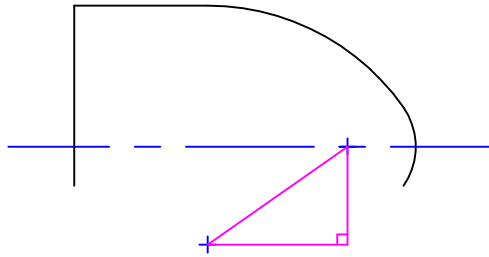


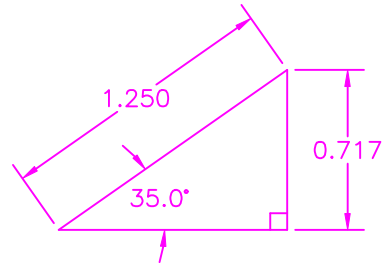
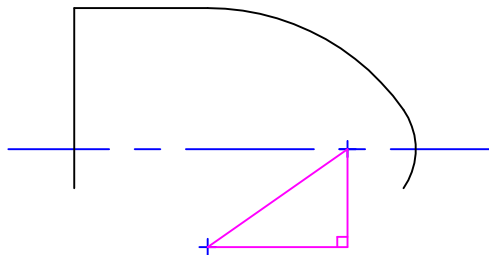
Nested Radii Intersecting

1-23-01 Nested Radii Intersecting pg2.DWG

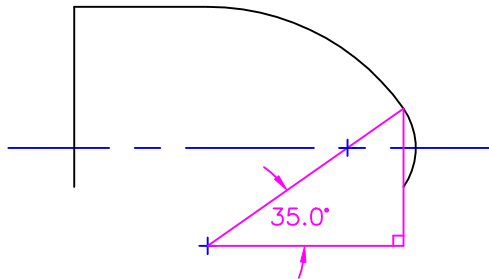
5. Draw a larger triangle off to the side of the drawing oriented the same as the one you drew. Write the two lengths, you just found, on the larger triangle.



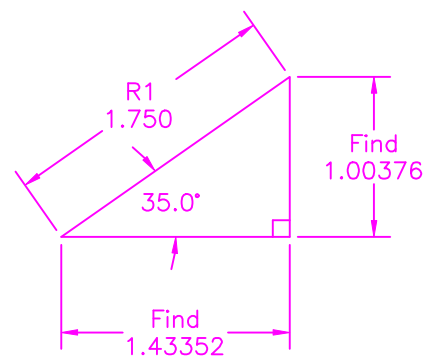
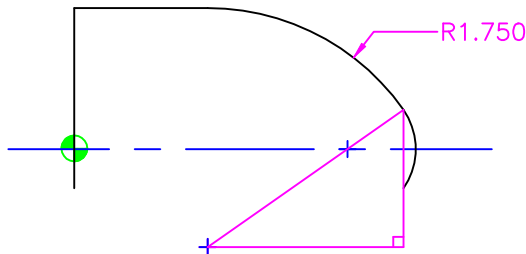
6. Calculate the ANGLE of the triangle.
 $(0.717 / 1.250) \text{ INV SIN} = 35.00165^\circ$
 This will be the angle of your triangles.



7. Draw a larger triangle from the center of the large radius through the center of the small radius out to the point where the two radii intersect. Note: This triangle has the same angle as the smaller triangle you drew earlier.



8. Write in the two knowns of this larger triangle; the angle and the hypotenuse length.



9. Calculate the other two legs of the larger triangle.
 $1.750 \times \text{SIN } 35 = 1.0037$
 $1.750 \times \text{COS } 35 = 1.43352$

10. Do the addition and subtraction from print dimensions to find the transition point wanted.

X 0.2868 Z 2.4095