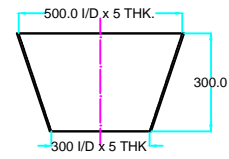


## CONE MAKING STEP BY STEP:

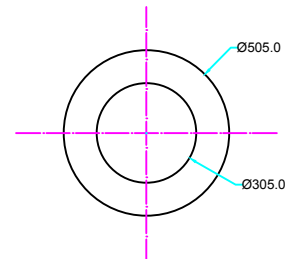
1) To draw a profile of a sample cone as shown in figure.



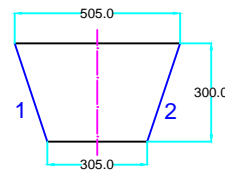
2) Draw 2 circles as shown.

First circle of  $\varnothing 505$ , taking into consideration:  
 $I/D + \text{thickness} = \text{Desired Dia. of circle i.e.}$   
 $\varnothing 500 (I/D) + 5 (\text{thk.}) = \varnothing 505 (\text{Desired Dia.})$

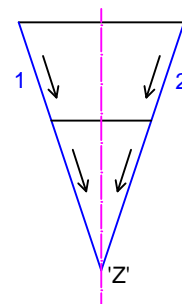
Similarly, draw second circle of  $\varnothing 305$  with method mentioned before.



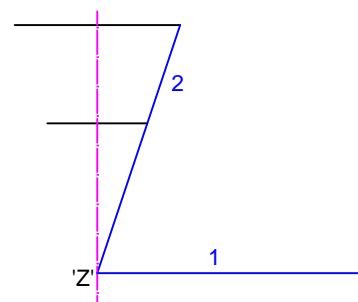
3) Now, Draw two horizontal lines, upper line with the length of 505 and and bottom line with the length of 305 taking vertical distance of 300 in between the two lines. Then, join the endpoints of both the lines creating lines '1' & '2' as shown in figure.



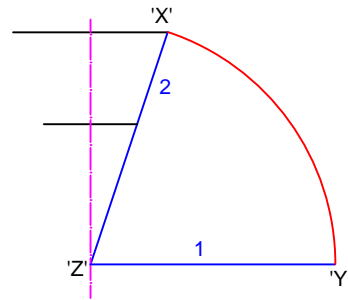
4) Stretch the center line downwards and extend lines '1' & '2' to meet at point 'Z'



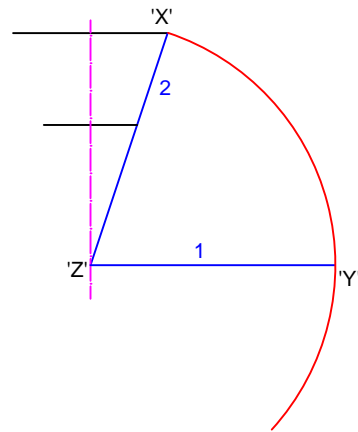
5) Rotate line 1 in a way that it will be perpendicular to the center line (Use 'Align' command') taking 'Z' as the base point.



6) Draw an Arc using center, start & end command, taking 'Z' as center, starting point as 'X' and end point as 'Y'.

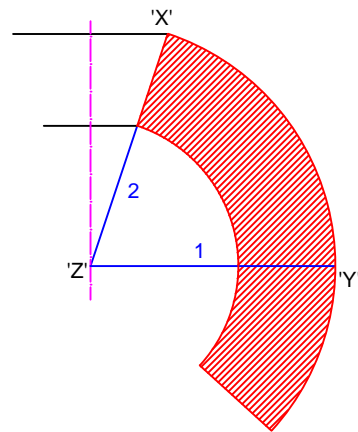


7) Select 'Lengthen' command and click anywhere on the circle of dia. 505 drawn in step 2. It will give the circumference of the circle (Note the circumference i.e. 1586.5043). Selecting Lengthen command, select 'T' for total and specify total length of arc i.e. 1586.5043, hit 'Enter' and then click on the arc 'XY'. It will automatically extend the arc to the specified length given before.



8) Similarly, by using 'Lengthen' command, draw other Arc.

Now, we got the desired profile. As shown in the figure by red color.



9) Erase all the things, except the desired profile.

To clarify, confirm the arc length of desired profile to the circumferences of respected circles.

