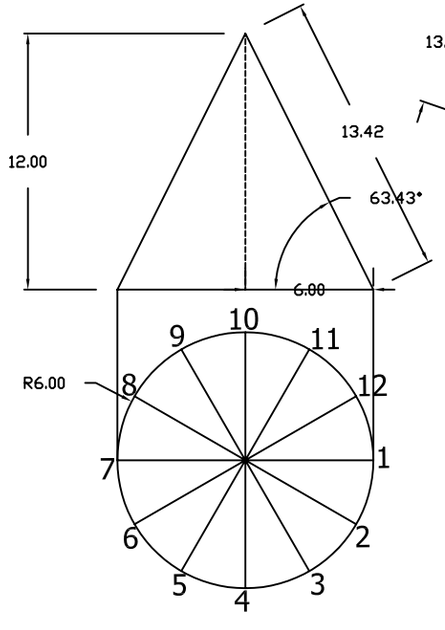

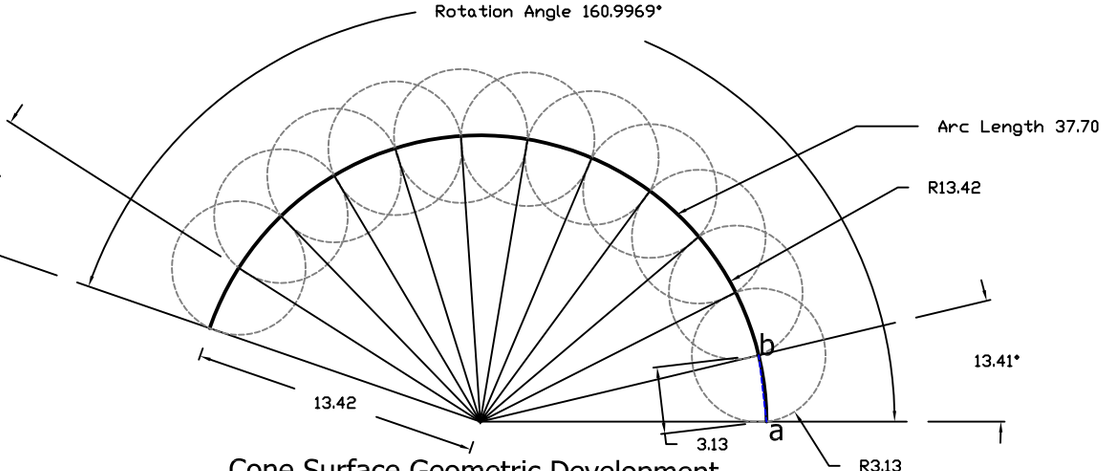

Cone Surface Geometric Development

Circumference = pi x Radius x 2
Circumference = 3.14 x 6 x 2 = 37.70
Cone Sectors = 12
Cone Slant Angle = arctan(12 ÷ 6) = 63.43495°
Cone Slant Length = Radius ÷ cos(Cone Slant Angle)
Cone Slant Length = 6 ÷ cos(63.43495°) = 13.41641

Cone Surface Rotation Angle = (360 * Cone Radius) ÷ Cone Slant Length
Cone Surface Rotation Angle = (360 * 6) ÷ 13.13.41641 = 160.9969°

Cone Surface Sector Angle 160.9969° ÷ 12 = 13.41641
DEGREE-TO-RAD = (pie ÷180) = 0.0174532925199433
cord ab = 2 * radius * sin(theta ÷ 2)
cord ab = 2 * 13.41641 * sin(13.41641° ÷ 2) = 3.13

Step off Sector Angle with circles or arc's having radius equal to ab