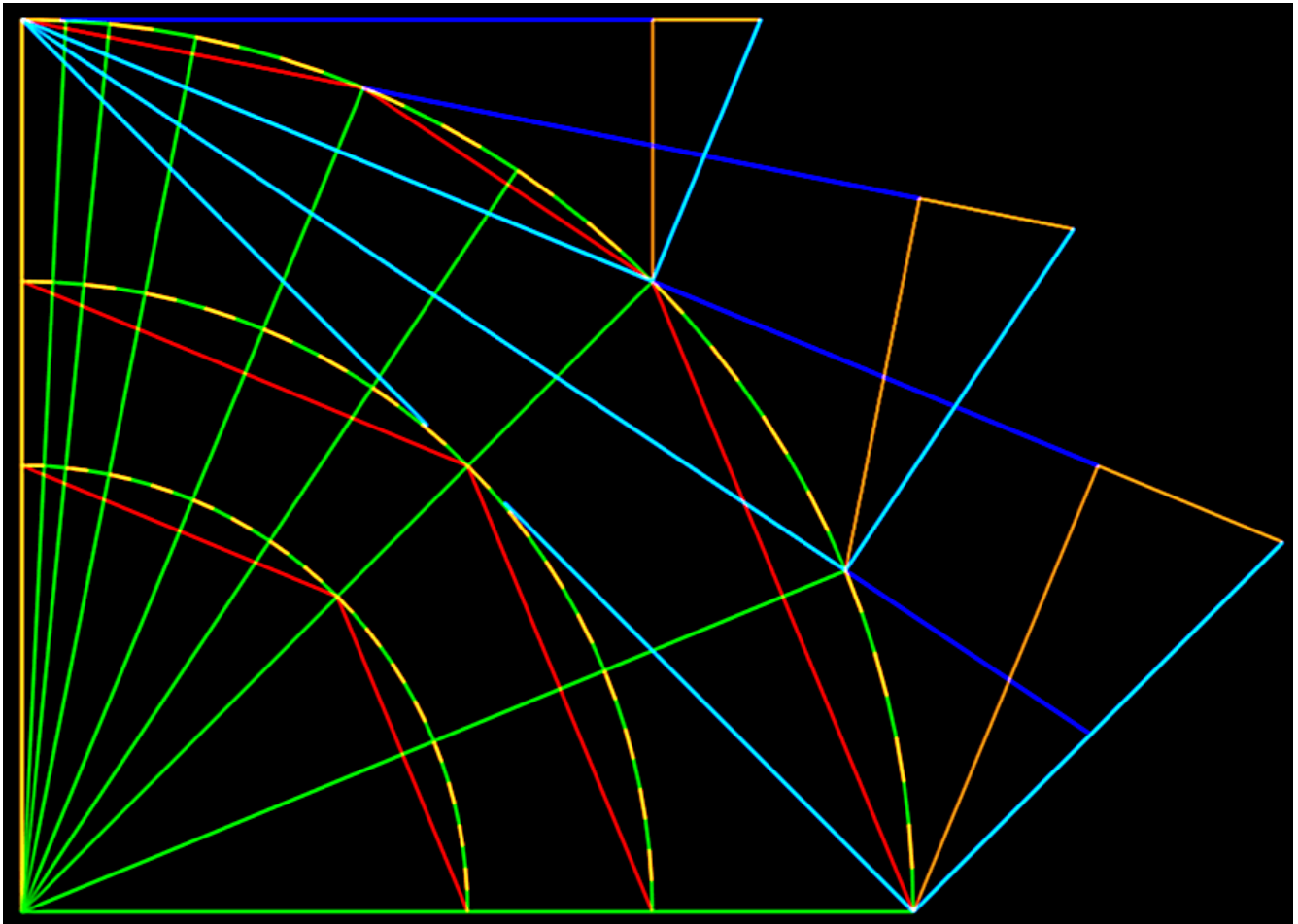


**Big Texas Downstep  
on Little Pi Plateau  
(D = 4, 90 degree arc = Pi)**



**Downstepping of right triangles to complement  
shorter line segments and shorter arcs of Pi  
where long side / short side =  $\sqrt{2}+1$**

**Large Right Triangle:  
sides =  $2(\sqrt{2})$  long side  
 $2(\sqrt{2}) / \sqrt{2}+1$  short side  
 $\sqrt{8 + (8/(2(\sqrt{2})+3))}$  hypotenuse**

**Texas Downstep, sqrt(2)-hosted Pi Corral,  
where Diameter = 4, 1/4 Circumference = Pi**

**Large Right Triangle (identifies Pi and Pi/2)**

a = 1.1715728752538099023966225515806..  
 b = 2.8284271247461900976033774484194..  
 c = 3.0614674589207181738276798722432..  
 b/a = 2.4142135623730950488016887242097.. sqrt(2)+1  
 2.8284271247461900976033774484194.. side b  
 / 2.4142135623730950488016887242097.. sqrt(2)+1  
 = 1.1715728752538099023966225515806.. side a

**(confirmation with Pythagorean Theorem)**

2.8284271247461900976033774484194.. side b  
<sup>2</sup> = 8  
 1.1715728752538099023966225515806.. side a  
<sup>2</sup> = 1.3725830020304792191729804126448..  
 + 8 = 9.3725830020304792191729804126448..  
 sqrt( = 3.0614674589207181738276798722432.. side c

**Medium Right Triangle (identifies Pi as 4 parts,  
these numbas for MRT not calculated)**

**Small Right Triangle (identifies Pi/2 and Pi/4,  
these numbas for next subset of SRT)**

a = 0.5857864376269049511983112757903..  
 b = 1.4142135623730950488016887242097..  
 c = 1.5307337294603590869138399361216..  
 b/a = 2.4142135623730950488016887242097.. sqrt(2)+1  
 1.1715728752538099023966225515806.. side a of LRT  
 / 2 = 0.5857864376269049511983112757903.. side a of SRT  
 3.0614674589207181738276798722432.. side c of LRT  
 / 2 = 1.5307337294603590869138399361216.. side c of SRT

**(confirmation with Pythagorean Theorem)**

1.5307337294603590869138399361216.. side c  
<sup>2</sup> = 2.3431457505076198047932451031612..  
 0.5857864376269049511983112757903.. side a  
<sup>2</sup> = 0.34314575050761980479324510316121..  
 2.3431457505076198047932451031612..  
 - 0.3431457505076198047932451031612..  
 = 2  
 sqrt( = 1.4142135623730950488016887242097.. side b