let $q = 0.5$ be first radius of the first circle the first area
let $w = 0.7853981634$ be area of the first circle of radius $0.5$
let $r = 1.5707963268$ be area of the second circle of double the area of the first circle of radius $0.7071067812$
let $t = 0.7071067812$ be radius of the second circle of the area of double the area of the first circle of area
let $u = 1$ be radius of the third circle of area of $3.1415926537$