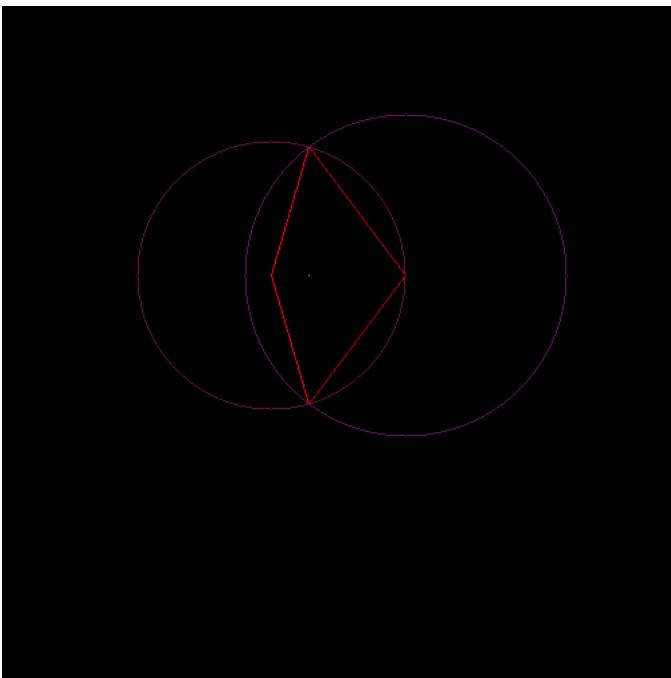
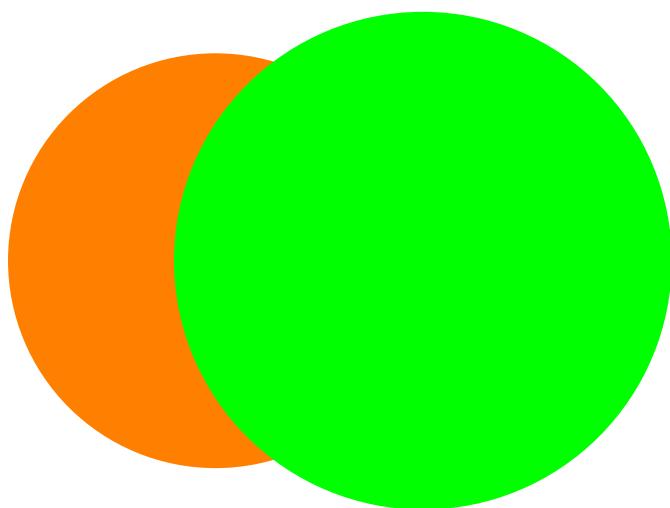
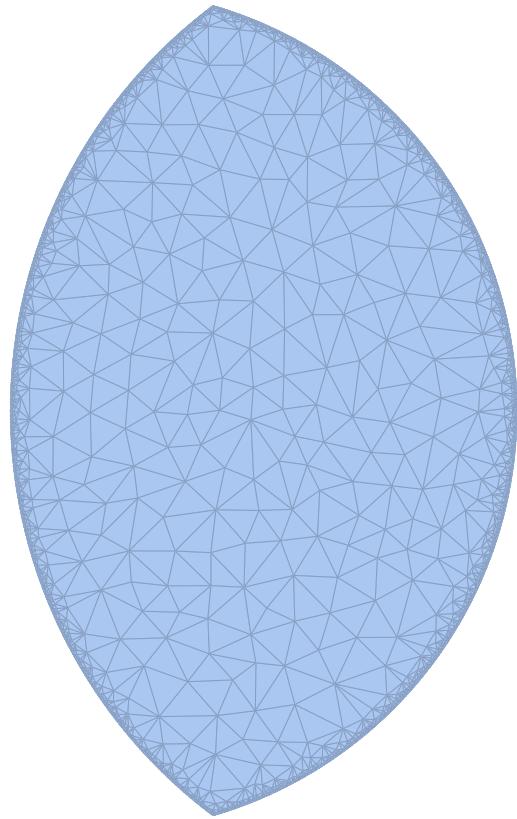


(* Normal intersection



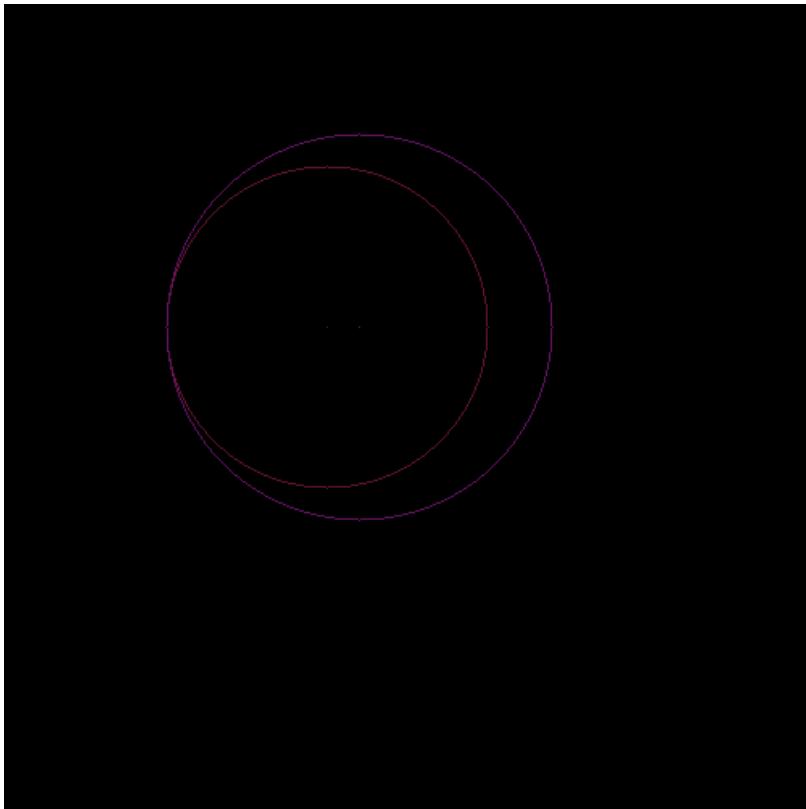
```
*)  
d0 = Disk[{200, 200}, 100];  
d1 = Disk[{300, 200}, 120];  
Graphics[{Orange, d0, Green, d1}]  
DiscretizeRegion[RegionIntersection[d0, d1], AccuracyGoal -> 5]  
N[RegionIntersection[d0, d1] // Area, 10]
```



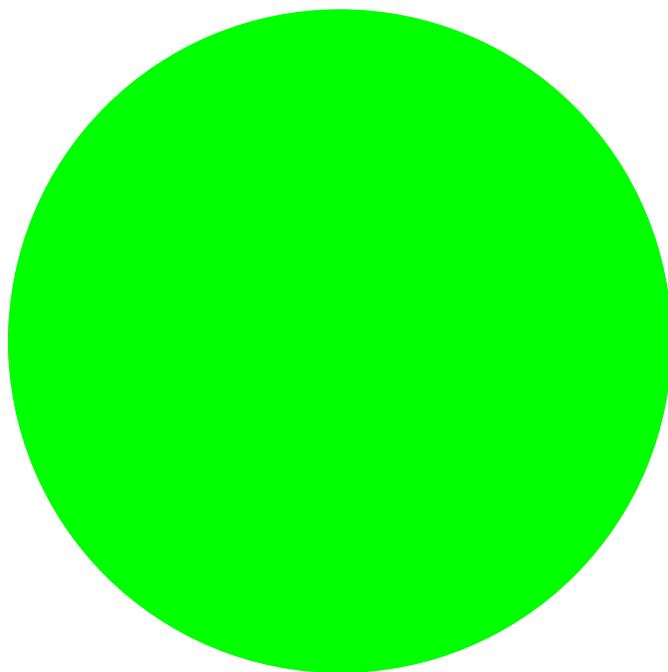


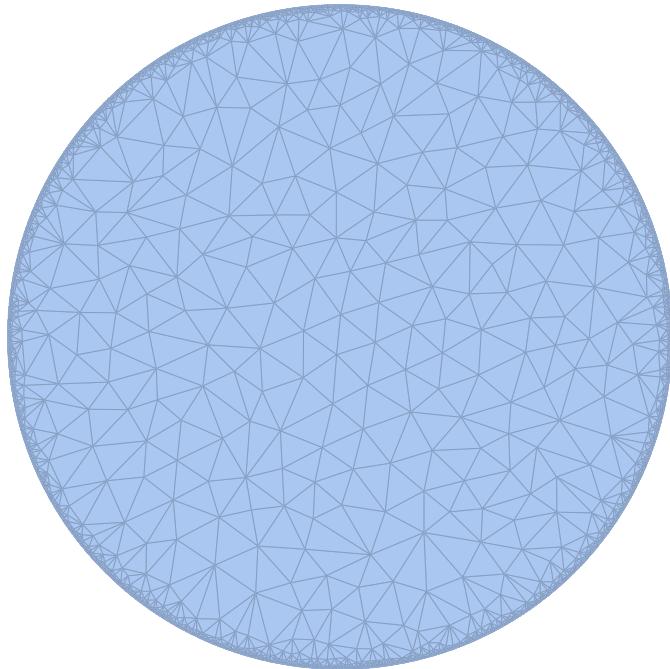
16 623.07332

(* Touch, inside



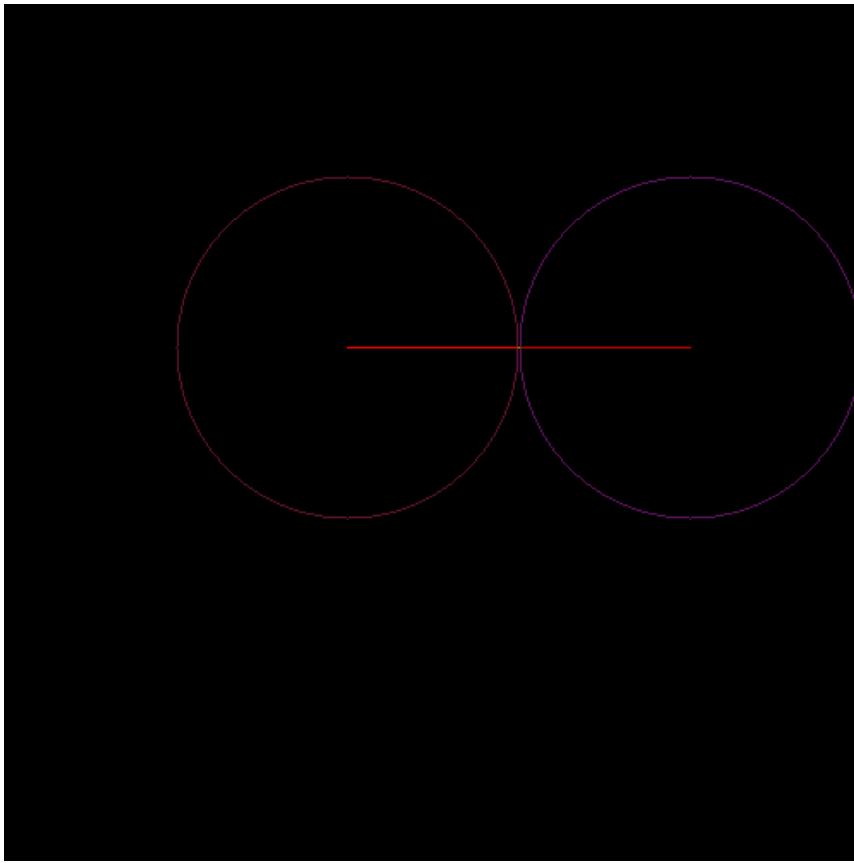
```
*)  
d0 = Disk[{200, 200}, 100];  
d1 = Disk[{220, 200}, 120];  
Graphics[{Orange, d0, Green, d1}]  
DiscretizeRegion[RegionIntersection[d0, d1], AccuracyGoal -> 5]  
N[RegionIntersection[d0, d1] // Area, 10]
```



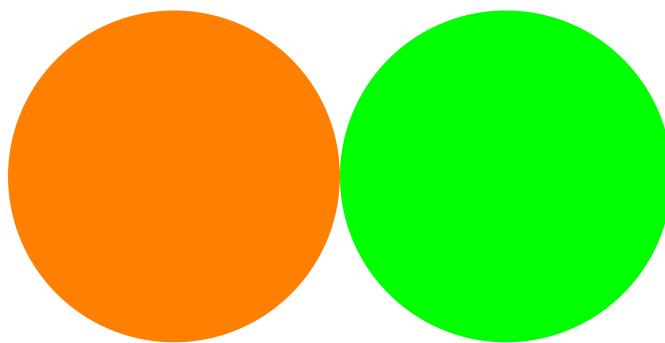


31 415 . 92654

(* Touch,outside

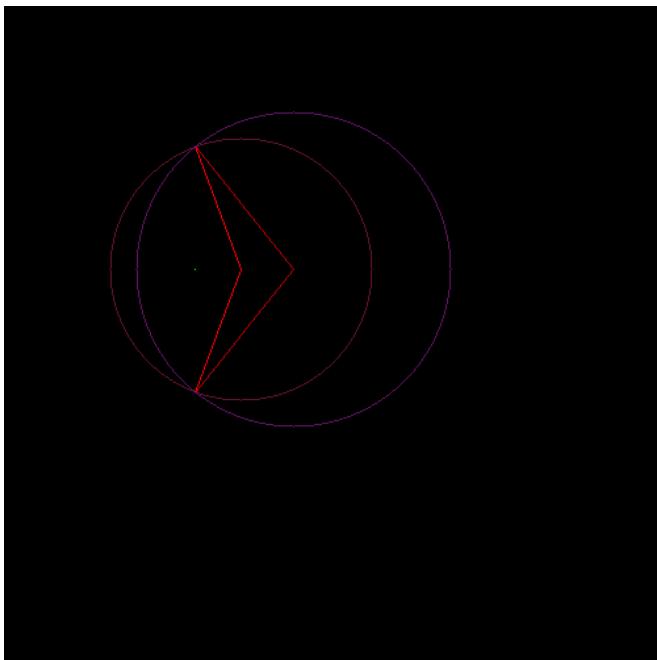


```
*)  
d0 = Disk[{200, 200}, 100];  
d1 = Disk[{400, 200}, 100];  
Graphics[{Orange, d0, Green, d1}]  
DiscretizeRegion[RegionIntersection[d0, d1], AccuracyGoal -> 5]  
N[RegionIntersection[d0, d1] // Area, 10]
```

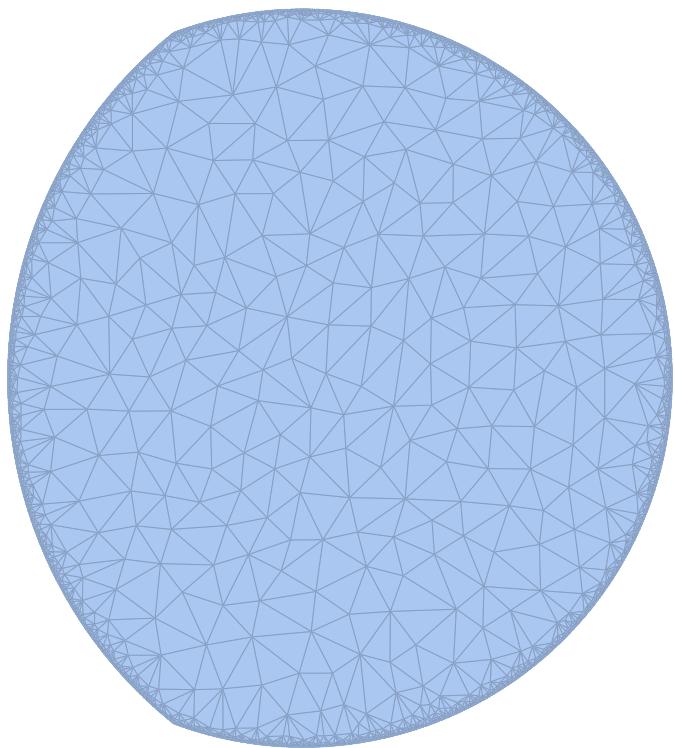
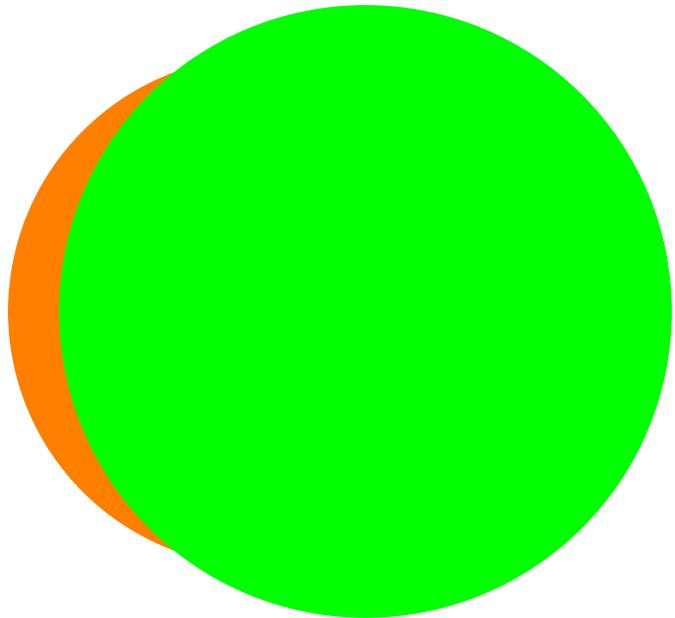


0

(* Angle greater than 180°



```
*)  
d0 = Disk[{180, 200}, 100];  
d1 = Disk[{220, 200}, 120];  
Graphics[{Orange, d0, Green, d1}]  
DiscretizeRegion[RegionIntersection[d0, d1], AccuracyGoal -> 5]  
N[RegionIntersection[d0, d1] // Area, 10]
```



28 434.24854