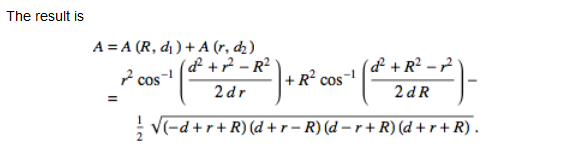
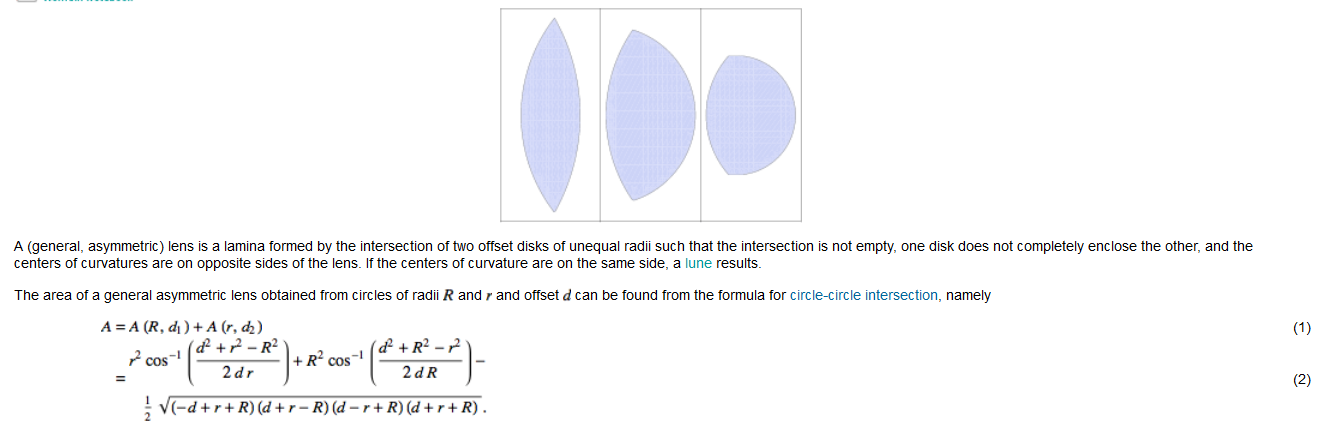
Documentation for Thesis work



<http://mathworld.wolfram.com/Circle-CircleIntersection.html>



<http://mathworld.wolfram.com/Lens.html>

<https://www.xarg.org/2016/07/calculate-the-intersection-area-of-two-circles/>

-> I have used this formula to calculate the area of the intersection of 2 circles.

-> Generalized IoU

<https://arxiv.org/abs/1902.09630>

-> Library for making shapes and manipulating them in the cartesian plane

<https://github.com/Toblerity/Shapely>

-> ellipse ellipse overlap

<https://stackoverflow.com/questions/48808941/overlap-area-of-2-ellipses-using-matplotlib>

-> I used shapely to generate built-in functions. Then I used built-in methods to calculate the overlapping area and find the IoU.