

hints.pdf correction and addendum.

The drawings in the hints.pdf file showing the parameter h as the distance from the plot center to the bisected chord are incorrect. The parameter h in the formulas is the distance from the bisected chord to the circle perimeter along a radial line. See formula (18) at the following link for clarification.

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

In addition to the three scenarios for calculating the overlap region given in the hints.pdf, a fourth scenario to consider is when the plot overlaps both stand boundaries in a corner, but not the corner itself, i.e. when the distance of the plot center to the corner is greater than the plot radius. In this case you would subtract the areas of the circular segments outside of each boundary from the area of the plot itself.