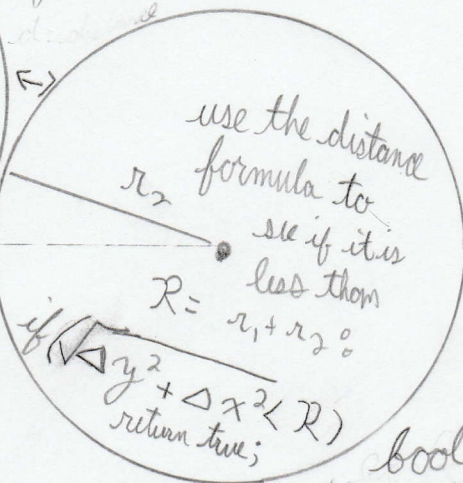
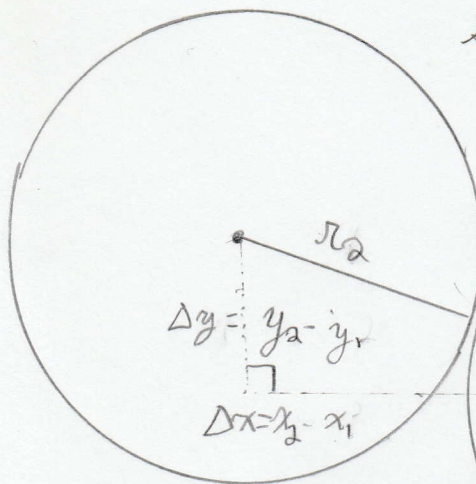


Method 3: First, calculate a circular perimeter around each shape. If no collision return NO_OVERLAP. if collision % OVERLAP



I. If Shape 1. type == circle and Shape 2. type == circle, return true

II. If the shapes were not circles, pass each polygon to the function: bool Polygon::overlaps(const Polygon&);

this function implements the open-source API known as a Clipper. By integrating this free-for-commercial-use library, the binary will now be able to detect clipping (collision) on any two polygons!

Ellipses will need to be converted by my function, function polygon::FromEllipse(Ellipse&);

$$(X_i, Y_i) = (a \cos(15^\circ \cdot i), b \sin(15^\circ \cdot i))$$

so we increment by 15° to draw a 24-sided polygon!

Now, we can detect collision of all shapes!

