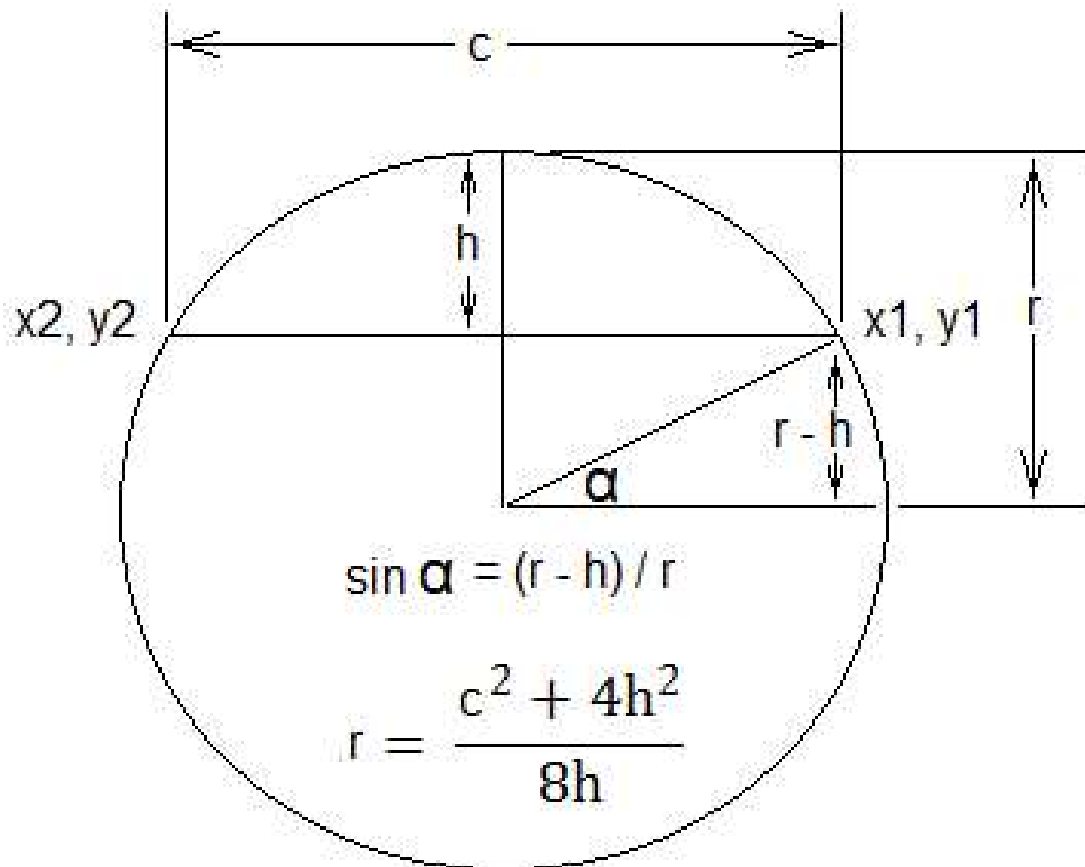


Case I: Arc with Horizontal Chord



c = chord length

r = radius

h = perpendicular distance from the chord to the top of the arc.

x_1, y_1 is the starting point of the arc

x_2, y_2 is the ending point of the arc