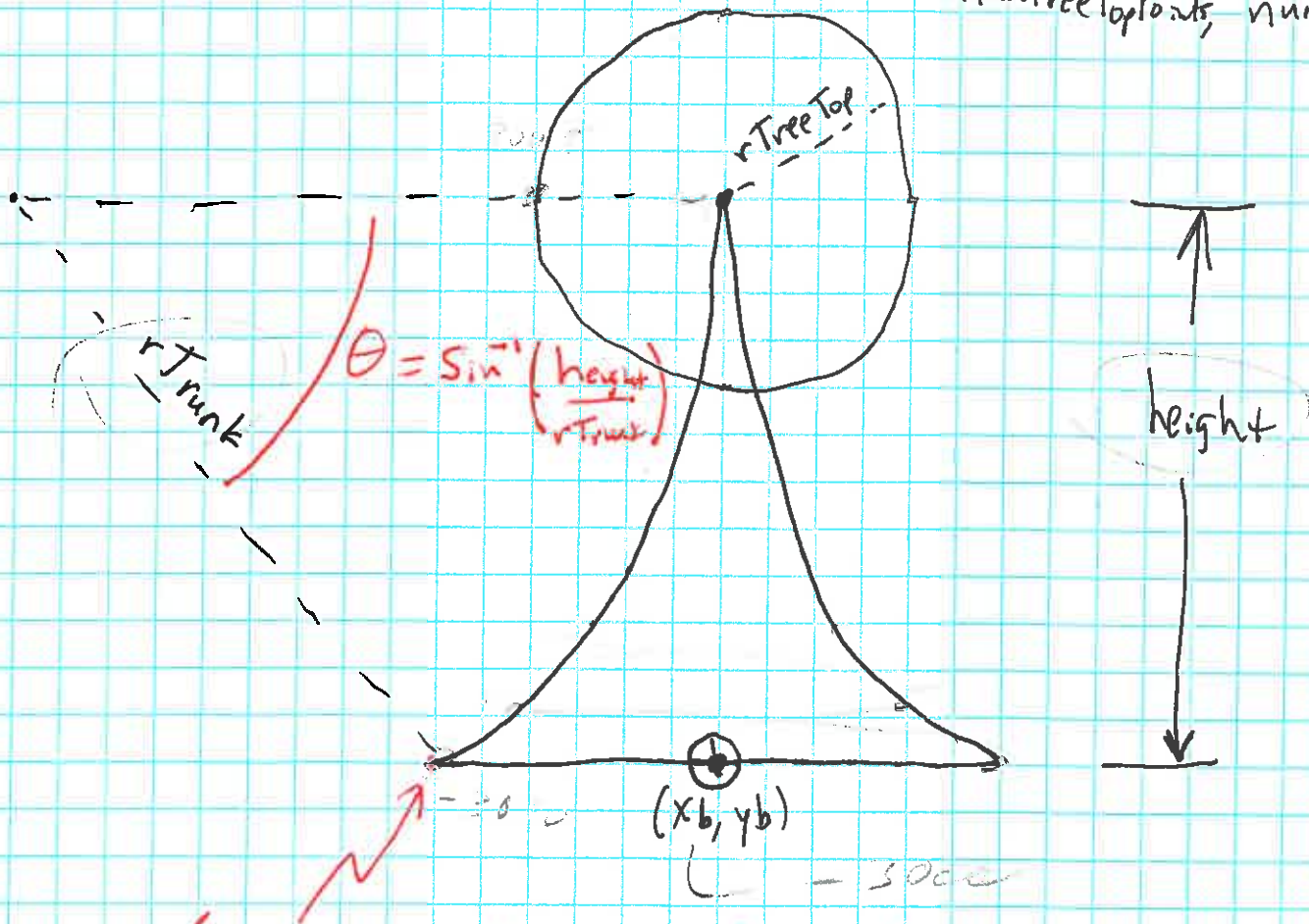


Tree ( $x_b, y_b, r_{TreeTop}, r_{Trunk}, height,$   
 $numTreeTopPoints, numTrunkPoints$ )



$$(x_b - r_{Trunk}(1.0 - \cos \theta), y_b)$$

Constraint:  $r_{Trunk} \geq height$