

$$\begin{aligned}(x - x_{c1})^2 + (y - y_{c1})^2 &= r_1^2 \\ (x - x_{c2})^2 + (y - y_{c2})^2 &= r_2^2\end{aligned}\tag{1}$$

The circles must touch the x axis so

$$\begin{aligned}(x - x_{c1})^2 + (y - r_1)^2 &= r_1^2 \\ (x - x_{c2})^2 + (y - r_2)^2 &= r_2^2\end{aligned}\tag{2}$$