$$\begin{split} \frac{(x - \text{DX})^2}{\text{AX}^2} + \frac{(y - \text{DY})^2}{\text{AY}^2} < 1 \\ \&\& & \min(\text{DX1}, \text{DX2}) < x - \text{DX} < \max(\text{DX1}, \text{DX2}) \\ \&\& & \min(\text{DY1}, \text{DY2}) < y - \text{DY} < \max(\text{DY1}, \text{DY2}) \end{split}$$