$tan\,\theta > 0$

$tan\,\theta < 0$

(X_{min}, Y_{max}) $\quad \alpha|_1 = 0 \leftarrow$
$\alpha|_2 < 0$

(X_{max}, Y_{max})

$\alpha| > 0$

$\alpha|/\sin\theta$

θ

(x, y)

$\alpha|_1 > 0 \leftarrow$
$\alpha_2 < 0$

$\rightarrow \alpha|_1 > 0$
$\alpha|_2 = 0$

$\alpha| < 0$

(X_{min}, Y_{min})

$y \uparrow$
$\quad \rightarrow x$

$Y_{max} = y + \alpha| \sin\theta$

$\alpha| = \dfrac{Y_{max} - y}{\sin\theta} \geq 0$

Other case:

$X_{min} = x + \alpha| \cos\theta$

$\alpha| = \dfrac{X_{min} - x}{\cos\theta} \geq 0$