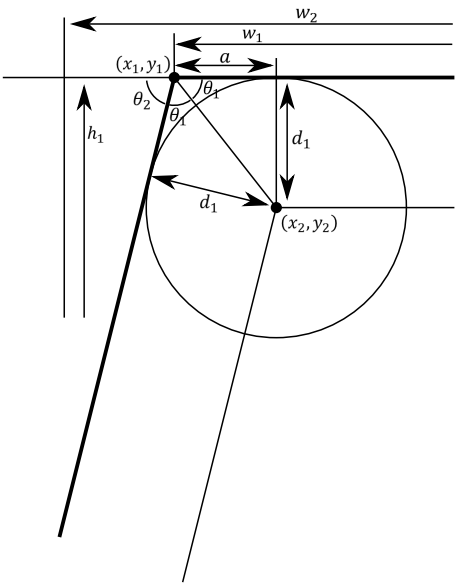


$x_1, y_1, \cancel{x_2, y_2}, w_1, w_2, h_1, d_1$が与えられたとき、

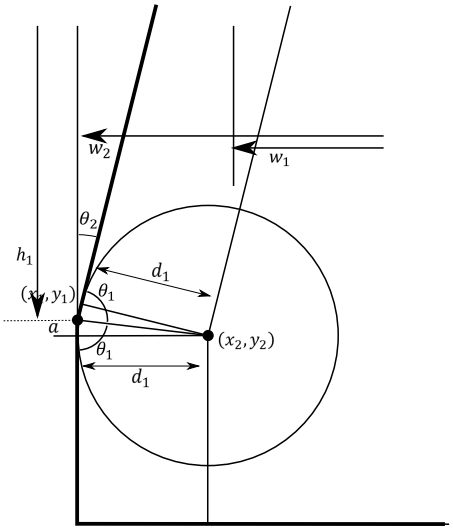
$\boldsymbol{x_2}$を求めたい。

$$\boldsymbol{x_2 = x_1 + a}$$

$$\tan\theta_1 = \frac{d_1}{a} \quad \rightarrow \quad \boldsymbol{a = \frac{d_1}{\tan\theta_1}}$$

$$\boldsymbol{\theta_1 = \frac{\pi - \theta_2}{2}}$$

$$\tan\theta_2 = \frac{h_1}{\left(\frac{w_2 - w_1}{2}\right)} = \frac{2h_1}{w_2 - w_1} \quad \rightarrow \quad \boldsymbol{\theta_2 = \tan^{-1}\left(\frac{2h_1}{w_2 - w_1}\right)}$$



$x_1, y_1, \cancel{x_2, y_2}, w_1, w_2, h_1, d_1$が与えられたとき、

$\boldsymbol{y_2}$を求めたい。

$$\boldsymbol{y_2 = y_1 - a}$$

$$\tan\theta_1 = \frac{d_1}{a} \quad \rightarrow \quad \boldsymbol{a = \frac{d_1}{\tan\theta_1}}$$

$$\boldsymbol{\theta_1 = \frac{\pi - \theta_2}{2}}$$

$$\tan\theta_2 = \frac{\left(\frac{w_2 - w_1}{2}\right)}{(h_1)} = \frac{w_2 - w_1}{2h_1} \quad \rightarrow \quad \boldsymbol{\theta_2 = \tan^{-1}\left(\frac{w_2 - w_1}{2h_1}\right)}$$