The equation for hyperbola when the two focal points are $(k, 0),(-k, 0)$ and the difference in length is given by $2 a$

두 초점이 $(k, 0),(-k, 0)$ 이고 길이의 차가 $2 a$ 로
주어 졌을 때 쌍곡선의 방정식
(The equation for hyperbola when the two focal points are ( $k, 0$ ),
( $-k, 0$ ) and the difference in length is given by $2 a$ )

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$$
\left|\sqrt{(x-k)^{2}+y^{2}}-\sqrt{(x+k)^{2}+y^{2}}\right|=2 a
$$

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$$
\left\lvert\, \begin{aligned}
& \left|\sqrt{(x-k)^{2}+y^{2}}-\sqrt{(x+k)^{2}+y^{2}}\right|=2 a \\
& \sqrt{(x-k)^{2}+y^{2}}-\sqrt{(x+k)^{2}+y^{2}}= \pm 2 a
\end{aligned}\right.
$$

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$$
\begin{aligned}
& \left|\sqrt{(x-k)^{2}+y^{2}}-\sqrt{(x+k)^{2}+y^{2}}\right|=2 a \\
& \sqrt{(x-k)^{2}+y^{2}}-\sqrt{(x+k)^{2}+y^{2}}= \pm 2 a \\
& \sqrt{(x-k)^{2}+y^{2}}=\sqrt{(x+k)^{2}+y^{2}} \pm 2 a
\end{aligned}
$$

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Github:
https://min7014.github.io/math20200605001.html

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