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$$\begin{aligned}\sqrt{(x+c)^2 + y^2} + \sqrt{(x-c)^2 + y^2} &= 2a \\ \sqrt{x-c^2 - y^2} - 2a - \sqrt{x-c^2 - y^2} & \\ \left[ \sqrt{x-c^2 - y^2} \right]^2 - \left[ 2a - \sqrt{x-c^2 - y^2} \right]^2 & \\ x-c^2 - y^2 - 4a^2 &\end{aligned}$$

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