$$\sqrt{a^2b} = |a|\sqrt{b} \ (b > 0)$$

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$$= \begin{cases} a\sqrt{b} & , a \ge 0 \end{cases}$$

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$$= \begin{cases} a\sqrt{b} &, a \ge 0 \\ -a\sqrt{b} &, a < 0 \end{cases}$$

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$$\therefore \sqrt{a^2b} = |a|\sqrt{b} \quad (b > 0)$$

YouTube: https://youtu.be/9m4bAZPa8Rk

Click or paste URL into the URL search bar, and you can see a picture moving.