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

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$$\sqrt{a^2b}$$

▶ Start

$$\sqrt{a^2b} = \sqrt{a^2}\sqrt{b}$$

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$$= \left\{\rule{0pt}{40pt}\right.$$

$$\sqrt{a^2b} = \sqrt{a^2}\sqrt{b}$$

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

▸ Start

$$\sqrt{a^2 b} = \sqrt{a^2}\sqrt{b}$$

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

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$$= |a|\sqrt{b}$$

$$\sqrt{a^2 b} = \sqrt{a^2}\sqrt{b}$$

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

$$= |a|\sqrt{b}$$

$$\therefore$$

▸ Start

$$\sqrt{a^2 b} = \sqrt{a^2}\sqrt{b}$$

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$$= |a|\sqrt{b}$$

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

$$\sqrt{a^2b} = \sqrt{a^2}\sqrt{b}$$

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$$= |a|\sqrt{b}$$

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

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

END