

$$\sqrt{AB} = \sqrt{A}\sqrt{B}$$

$$\sqrt{A/B} = \sqrt{A}/\sqrt{B}$$

$$\sqrt{A+B} \neq \sqrt{A} + \sqrt{B}$$

Examples:

$$\begin{aligned}\sqrt{9x^3} &= \sqrt{9}\sqrt{x^3} = \\ &3\sqrt{x^2x} = 3x\sqrt{x}\end{aligned}$$

$$\begin{aligned}\sqrt{3/4} &= \sqrt{3}/\sqrt{4} = \\ &\sqrt{3}/2\end{aligned}$$

$$\begin{aligned}6\sqrt{x/3} &= \sqrt{36}\sqrt{x/3} \\ &= \sqrt{36x/3} = \sqrt{12x}\end{aligned}$$

$$5 = \sqrt{(25)} = \sqrt{(16+9)} \neq \\ \sqrt{(16)}+\sqrt{(9)} = 4+3 = 7$$

$$\sqrt{(9x+18)} = \sqrt{(9(x+2))} = \\ \sqrt{(9)}\sqrt{(x+2)} = 3\sqrt{(x+2)}$$

With completing the  $\square$ :

$$\sqrt{(x^2-6x+9)} = \sqrt{((x-3)^2)} \\ = |x-3|$$