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* Understanding variables in the RADICAND

expression under the $\sqrt{}$

$\sqrt{x^2}$

$\sqrt{100} = \sqrt{10^2} = 10$

$\sqrt{x^2} = x$

$\sqrt{(\text{thing})^2} = (\text{thing})$

$\sqrt{(6mn)^2} = 6mn$

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

$\sqrt{16+9} = \sqrt{25} = 5$

TRUE TRUE

same?

$\sqrt{16+9} = \sqrt{16} + \sqrt{9}$

$4 + 3 = 7$