

① $\sqrt{25}$
 SQUARE ROOT
 $= \sqrt{5 \cdot 5}$
 $= 5$

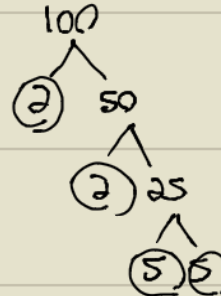
"RADICAL"
 ② $\sqrt{\frac{1}{4}}$
 $= \sqrt{\frac{1}{2} \cdot \frac{1}{2}}$
 $= \frac{1}{2}$

③ $\sqrt{0.25}$
 $= \sqrt{0.5 \cdot 0.5}$
 $= 0.5$

④ $-3\sqrt{16}$
 $-3\sqrt{4 \cdot 4}$
 $-3 \cdot 4$
 -12

⑤ $\sqrt{\frac{121}{16}}$
 $\sqrt{\frac{11}{4} \cdot \frac{11}{4}}$
 $\frac{11}{4}$

⑥ $\sqrt{5+95}$
 $\sqrt{100}$
 $\sqrt{2 \cdot 2 \cdot 5 \cdot 5}$
 $2 \cdot 5$
 10



⑦ $\sqrt{21}$
 $= 4.58$

⑧ $\sqrt{-9}$
 IF YOU HAVE A NEGATIVE INSIDE A SQUARE ROOT IT IS NOT A REAL #

⑨ $\sqrt{1600}$
 $= \sqrt{40 \cdot 40}$
 $= 40$
 RATIONAL

⑩ $\sqrt{31}$
 IRRATIONAL
 5.57

⑪ $\sqrt{(y-8)^2}$, $y-8 \geq 0$
 $= \sqrt{(y-8)(y-8)}$
 $= y-8$

NOTE:
 $\sqrt{16} \cdot \sqrt{16}$
 $= \sqrt{4 \cdot 4} = \sqrt{(-4)(-4)}$
 $= 4 \neq -4$
 NEVER HAVE A SQUARE ROOT GIVE US A NEGATIVE NUMBER

⑫ $\sqrt{(2x+y)^2}$
 $= \sqrt{(2x+y)(2x+y)}$
 $= |2x+y|$