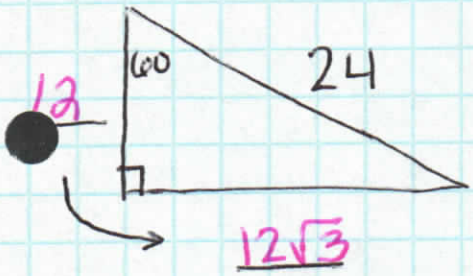
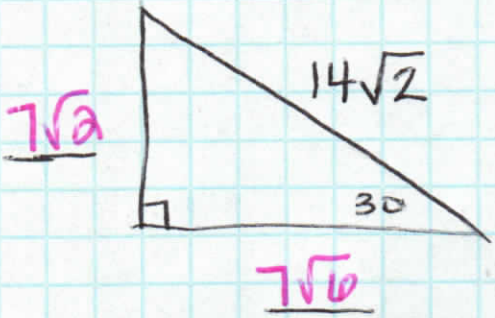
Example 4 Given Hypotenuse as whole #



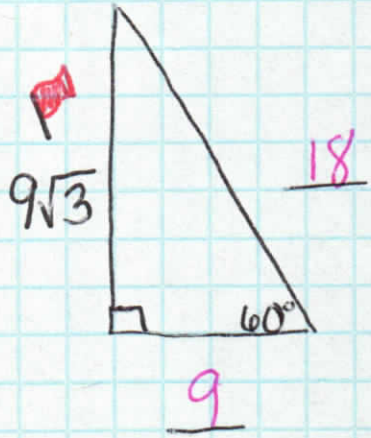
* divide hyp by 2 for short leg
* multiply "new" short leg by $\sqrt{3}$ for long leg

Example 5 Given hyp w/ radical



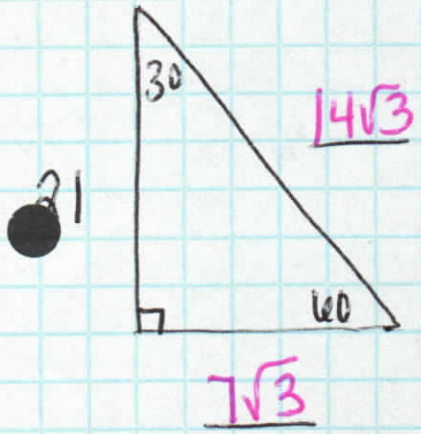
* divide "outside" number by 2 for short leg - radical goes along.
* multiply ~~long~~ new short leg by $\sqrt{3}$ for long leg. (Inside w/ inside)

Example 6 Given Long Leg w/ $\sqrt{3}$



* when given $\sqrt{3}$ in long leg, just take # in front for short leg
* multiply "new" short leg by 2 for hypotenuse

Example 7 Long leg as whole #



* when given long leg of 30-60-90 triangle as a whole number, divide by 3, then multiply by $\sqrt{3}$ for short leg
* multiply "outside" of new short leg by 2 for hypotenuse, include $\sqrt{3}$