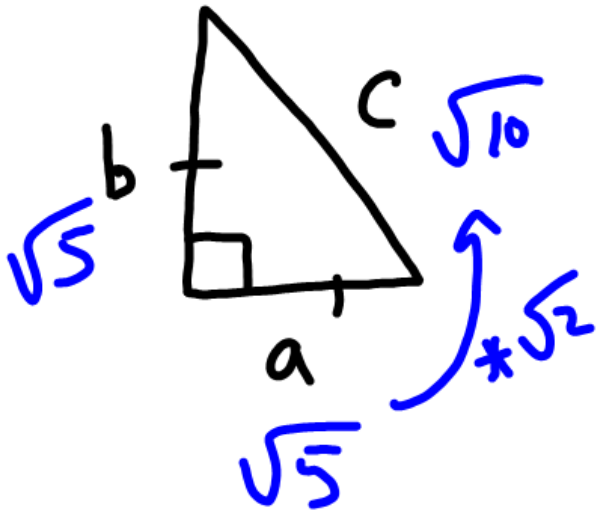


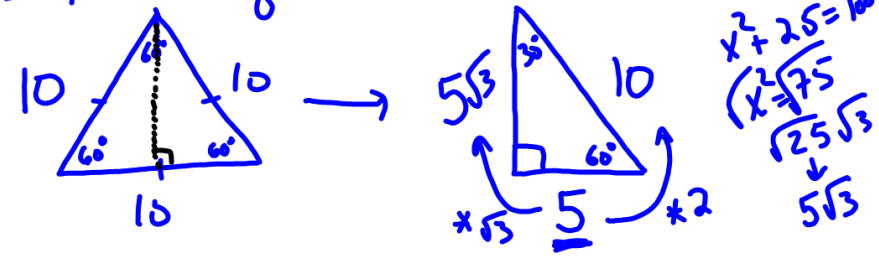
$$\sqrt{5} \cdot \sqrt{2}$$

$$= \sqrt{10}$$

7.4b The Other Special Δ

* Easy as $1, 2, \sqrt{3}$ for 30-60-90

Comes from equilateral Δ & altitude



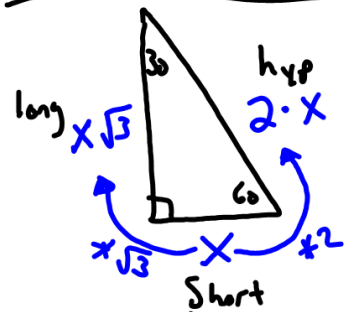
$x^2 + 25 = 100$

$x^2 = 75$

$\sqrt{25}\sqrt{3}$

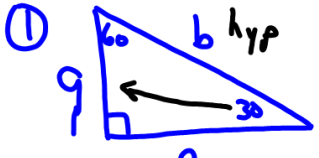
$5\sqrt{3}$

30-60-90



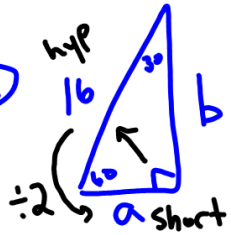
* hypotenuse = Short * 2
  or Short = hyp ÷ 2
* long = Short * $\sqrt{3}$
  or Short = long ÷ $\sqrt{3}$

Examples

① 

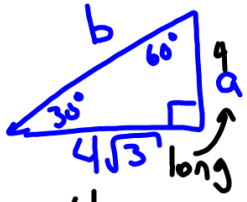
$a = 9\sqrt{3}$ long

$b = 18$

② 

$a = 8$

$b = 8\sqrt{3}$

③ 

$a = 4$

$b = 8$