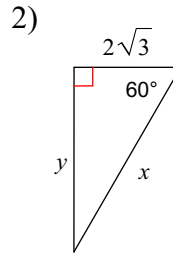
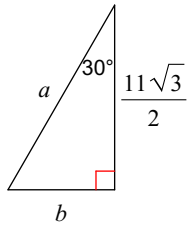


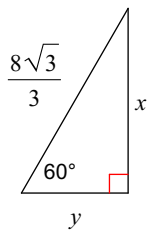
3.6 - Special Right Triangles (30-60-90)

Find the missing side lengths. Leave your answers as radicals in simplest form.

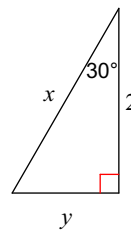
1)  $a = 11, b = \frac{11}{2}$



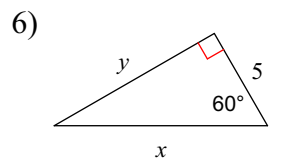
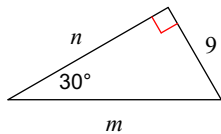
3)  $x = 4, y = \frac{4\sqrt{3}}{3}$



4)  $x = 4\sqrt{3}, y = 6$   
 $x = \frac{4\sqrt{3}}{3}, y = \frac{2\sqrt{3}}{3}$

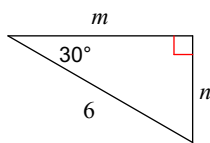


5)  $m = 18, n = 9\sqrt{3}$

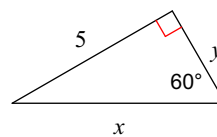


$x = 10, y = 5\sqrt{3}$

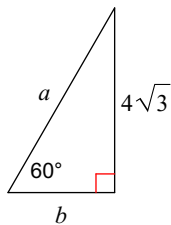
7)  $m = 3\sqrt{3}, n = 3$



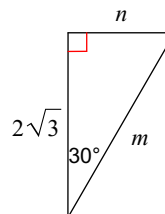
8)  $x = \frac{10\sqrt{3}}{3}, y = \frac{5\sqrt{3}}{3}$



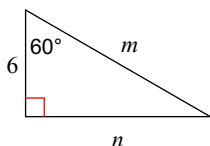
9)  $a = 8, b = 4$



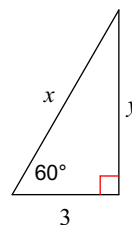
10)  $m = 4, n = 2$



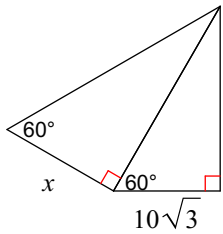
11)  $m = 12, n = 6\sqrt{3}$



12)  $x = 6, y = 3\sqrt{3}$

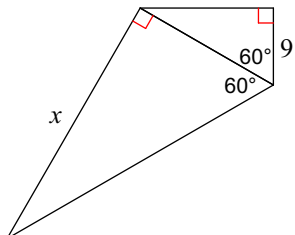


13)



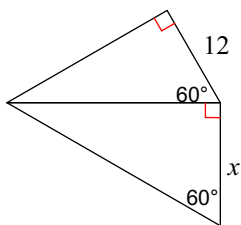
20

15)



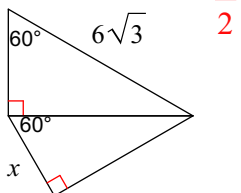
18\sqrt{3}

17)



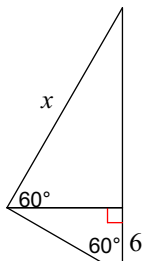
8\sqrt{3}

19)



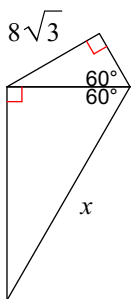
$\frac{9}{2}$

21)



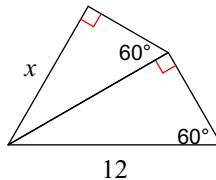
12\sqrt{3}

23)



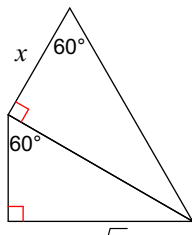
32

14)



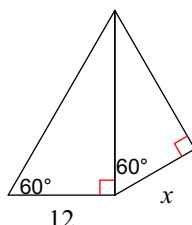
9

16)



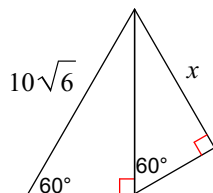
6\sqrt{6}

18)



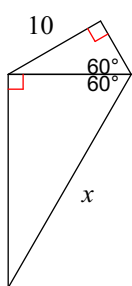
6\sqrt{3}

20)



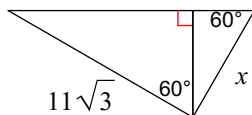
$\frac{15\sqrt{6}}{2}$

22)



$\frac{40\sqrt{3}}{3}$

24)



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