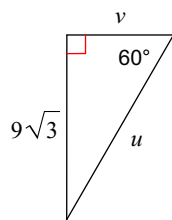


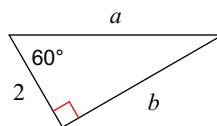
30-60-90 Triangles

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

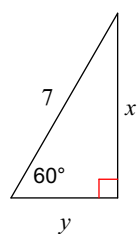
1)



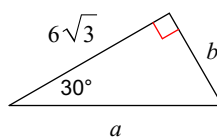
2)



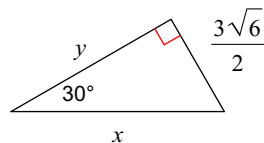
3)



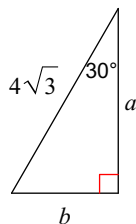
4)



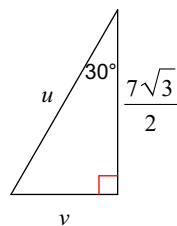
5)



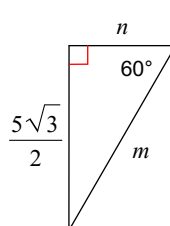
6)



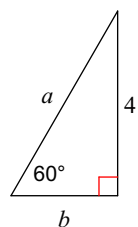
7)



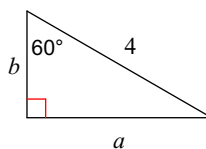
8)



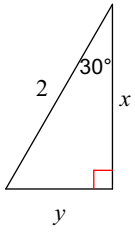
9)



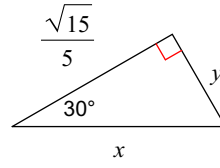
10)



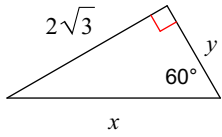
11)



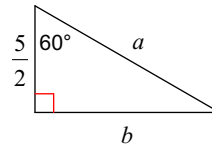
12)



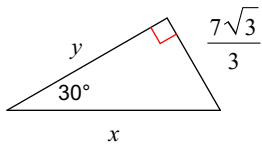
13)



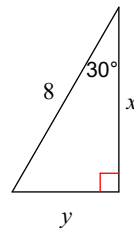
14)



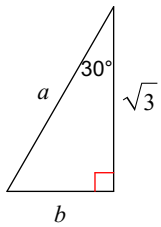
15)



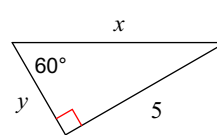
16)



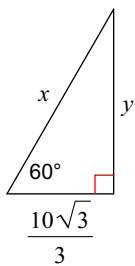
17)



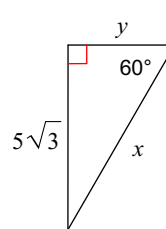
18)



19)



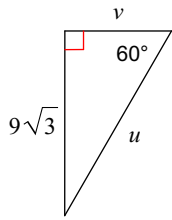
20)



30-60-90 Triangles

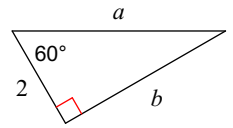
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



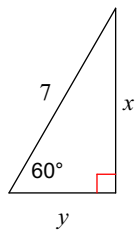
$$u = 18, v = 9$$

2)



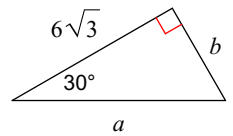
$$a = 4, b = 2\sqrt{3}$$

3)



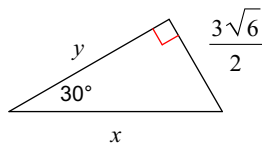
$$x = \frac{7\sqrt{3}}{2}, y = \frac{7}{2}$$

4)



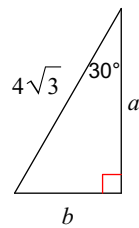
$$a = 12, b = 6$$

5)



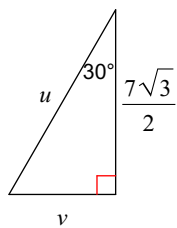
$$x = 3\sqrt{6}, y = \frac{9\sqrt{2}}{2}$$

6)



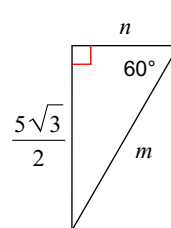
$$a = 6, b = 2\sqrt{3}$$

7)



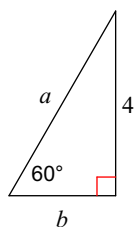
$$u = 7, v = \frac{7}{2}$$

8)



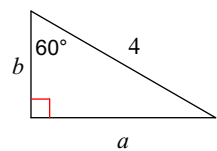
$$m = 5, n = \frac{5}{2}$$

9)



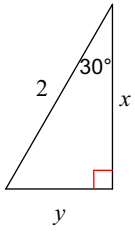
$$a = \frac{8\sqrt{3}}{3}, b = \frac{4\sqrt{3}}{3}$$

10)



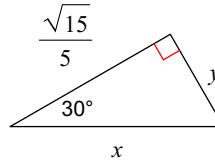
$$a = 2\sqrt{3}, b = 2$$

11)



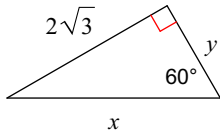
$$x = \sqrt{3}, y = 1$$

12)



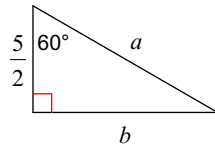
$$x = \frac{2\sqrt{5}}{5}, y = \frac{\sqrt{5}}{5}$$

13)



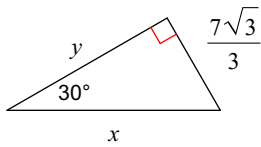
$$x = 4, y = 2$$

14)



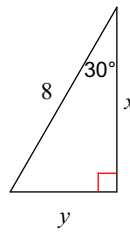
$$a = 5, b = \frac{5\sqrt{3}}{2}$$

15)



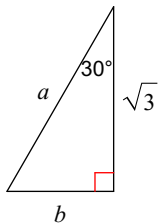
$$x = \frac{14\sqrt{3}}{3}, y = 7$$

16)



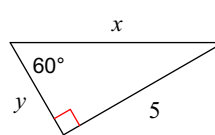
$$x = 4\sqrt{3}, y = 4$$

17)



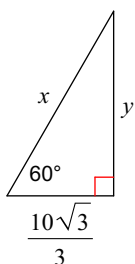
$$a = 2, b = 1$$

18)



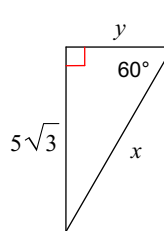
$$x = \frac{10\sqrt{3}}{3}, y = \frac{5\sqrt{3}}{3}$$

19)



$$x = \frac{20\sqrt{3}}{3}, y = 10$$

20)



$$x = 10, y = 5$$