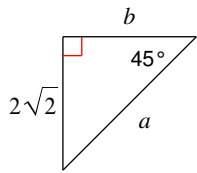


Special Right Triangles

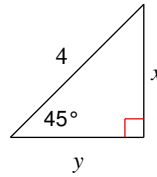
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



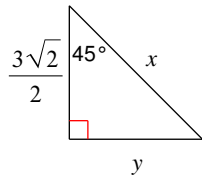
$$a = 4, b = 2\sqrt{2}$$

2)



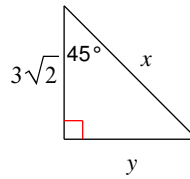
$$x = 2\sqrt{2}, y = 2\sqrt{2}$$

3)



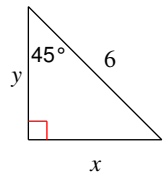
$$x = 3, y = \frac{3\sqrt{2}}{2}$$

4)



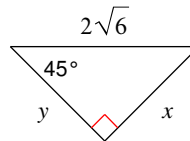
$$x = 6, y = 3\sqrt{2}$$

5)



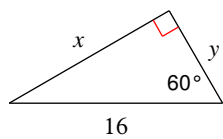
$$x = 3\sqrt{2}, y = 3\sqrt{2}$$

6)



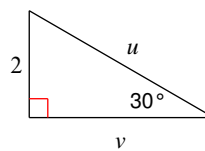
$$x = 2\sqrt{3}, y = 2\sqrt{3}$$

7)



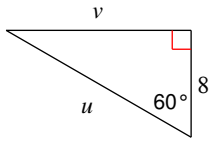
$$x = 8\sqrt{3}, y = 8$$

8)



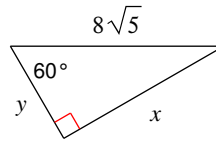
$$u = 4, v = 2\sqrt{3}$$

9)



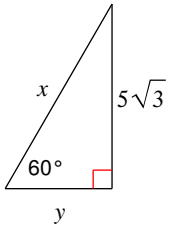
$$u = 16, v = 8\sqrt{3}$$

10)



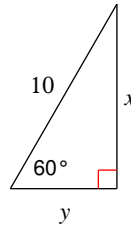
$$x = 4\sqrt{15}, y = 4\sqrt{5}$$

11)



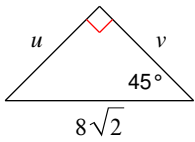
$$x = 10, y = 5$$

12)



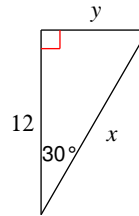
$$x = 5\sqrt{3}, y = 5$$

13)



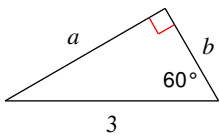
$$u = 8, v = 8$$

14)



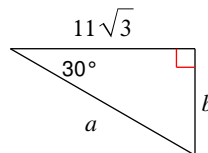
$$x = 8\sqrt{3}, y = 4\sqrt{3}$$

15)



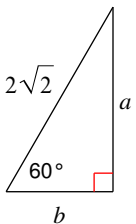
$$a = \frac{3\sqrt{3}}{2}, b = \frac{3}{2}$$

16)



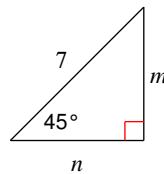
$$a = 22, b = 11$$

17)



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

18)



$$m = \frac{7\sqrt{2}}{2}, n = \frac{7\sqrt{2}}{2}$$