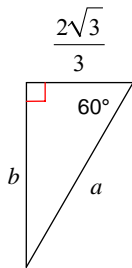


# Special Right Triangles 1

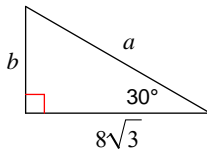
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**Find the missing side lengths. Leave your answers as radicals in simplest form.**

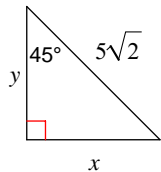
1)



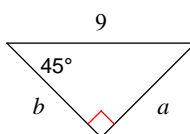
2)



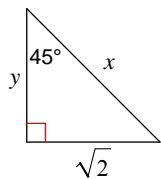
3)



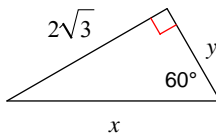
4)



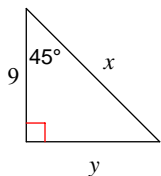
5)



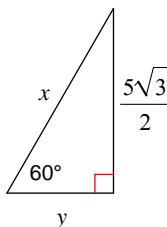
6)



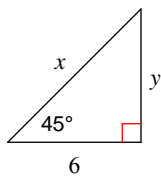
7)



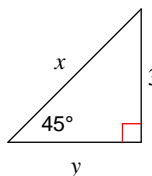
8)



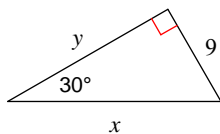
9)



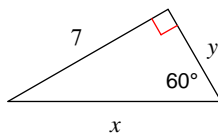
10)



11)



12)



## Answers to Special Right Triangles 1 (ID: 1)

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

2)  $a = 16, b = 8$

3)  $x = 5, y = 5$

4)  $a = \frac{9\sqrt{2}}{2}, b = \frac{9\sqrt{2}}{2}$

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

6)  $x = 4, y = 2$

7)  $x = 9\sqrt{2}, y = 9$

8)  $x = 5, y = \frac{5}{2}$

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

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

11)  $x = 18, y = 9\sqrt{3}$

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