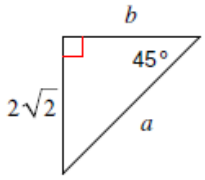
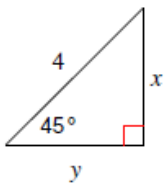
Special Right Triangles

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

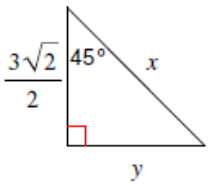
1)



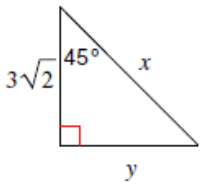
2)



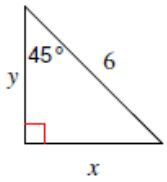
3)



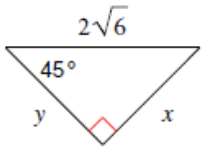
4)



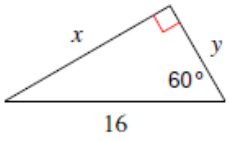
5)



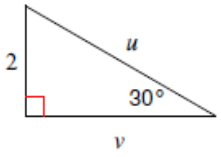
6)



7)



8)

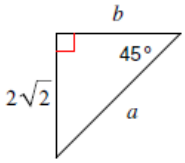


Special Right Triangles … Set 1

Answers

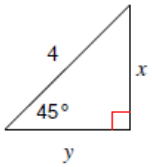
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



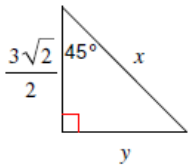
$a = 4,\ b = 2\sqrt{2}$

2)



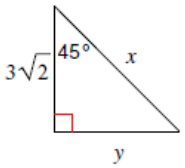
$x = 2\sqrt{2},\ y = 2\sqrt{2}$

3)



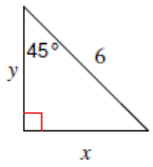
$x = 3,\ y = \frac{3\sqrt{2}}{2}$

4)



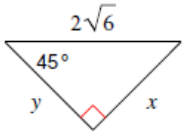
$x = 6,\ y = 3\sqrt{2}$

5)



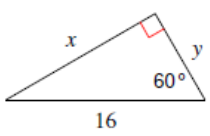
$x = 3\sqrt{2},\ y = 3\sqrt{2}$

6)



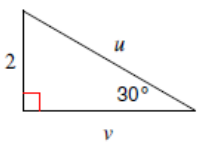
$x = 2\sqrt{3},\ y = 2\sqrt{3}$

7)



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

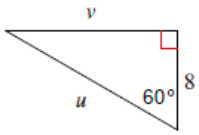
8)



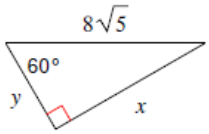
$u = 4,\ v = 2\sqrt{3}$

Special Right Triangles … Set 1

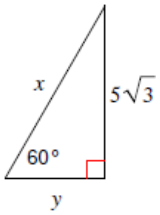
9)



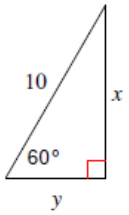
10)



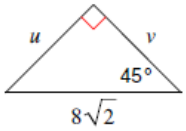
11)



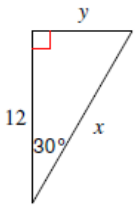
12)



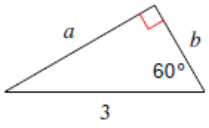
13)



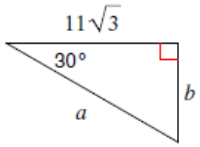
14)



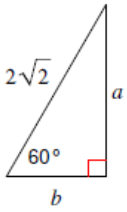
15)



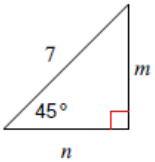
16)



17)



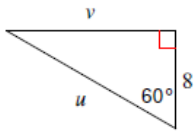
18)



Special Right Triangles … Set 1

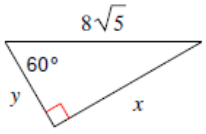
Answers

9)



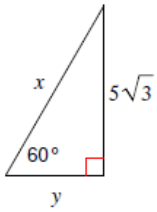
$u = 16,\ v = 8\sqrt{3}$

10)



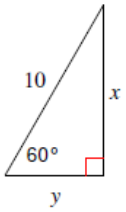
$x = 4\sqrt{15},\ y = 4\sqrt{5}$

11)



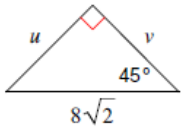
$x = 10,\ y = 5$

12)



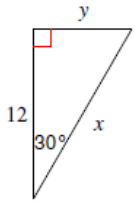
$x = 5\sqrt{3},\ y = 5$

13)



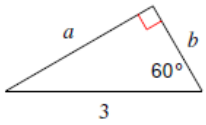
$u = 8,\ v = 8$

14)



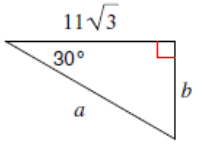
$x = 8\sqrt{3},\ y = 4\sqrt{3}$

15)



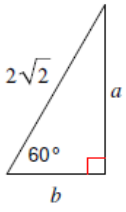
$a = \frac{3\sqrt{3}}{2},\ b = \frac{3}{2}$

16)



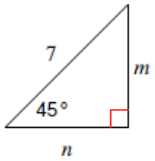
$a = 22,\ b = 11$

17)



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

18)



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