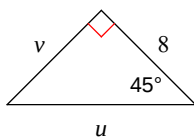
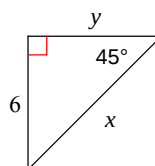


Find the missing side lengths. Leave your answers as radicals in simplest form.

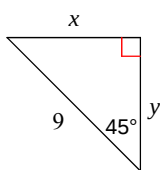
1)



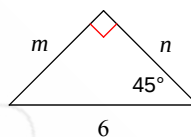
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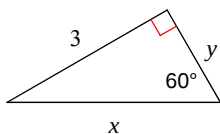
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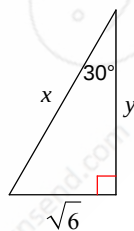
4)



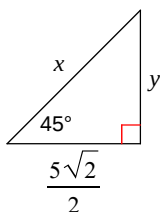
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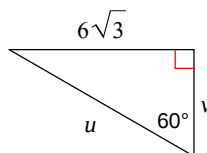
6)



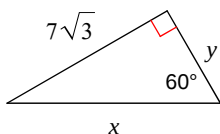
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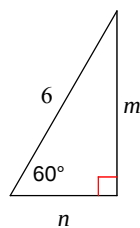
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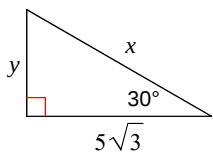
9)



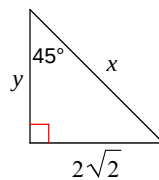
10)



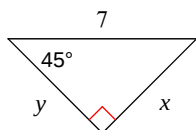
11)



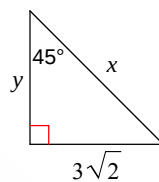
12)



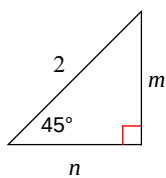
13)



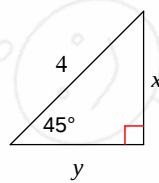
14)



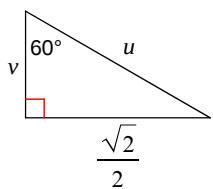
15)



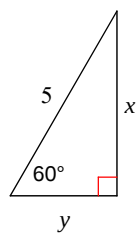
16)



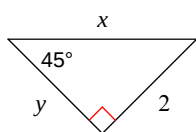
17)



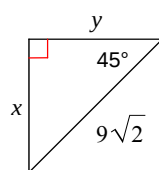
18)



19)



20)



## Answers to

1)  $u = 8\sqrt{2}$ ,  $v = 8$

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

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

4)  $m = 3\sqrt{2}$ ,  $n = 3\sqrt{2}$

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

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

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

8)  $u = 12$ ,  $v = 6$

9)  $x = 14$ ,  $y = 7$

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

11)  $x = 10$ ,  $y = 5$

12)  $x = 4$ ,  $y = 2\sqrt{2}$

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

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

15)  $m = \sqrt{2}$ ,  $n = \sqrt{2}$

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

17)  $u = \frac{\sqrt{6}}{3}$ ,  $v = \frac{\sqrt{6}}{6}$

18)  $x = \frac{5\sqrt{3}}{2}$ ,  $y = \frac{5}{2}$

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

20)  $x = 9$ ,  $y = 9$

