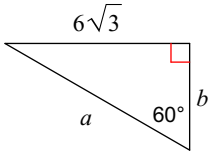
Geometry Name_____

Special Right Triangles Review (Tiered)

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

1)



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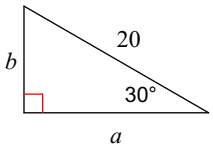

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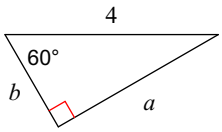

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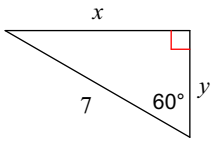

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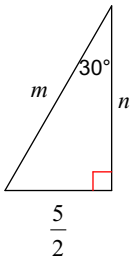

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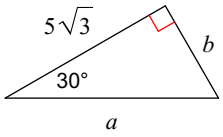

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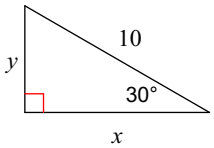

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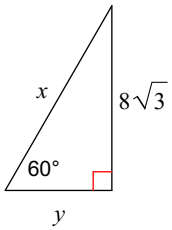

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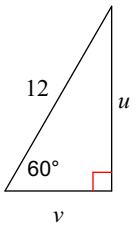

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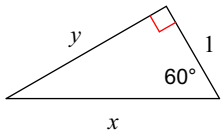

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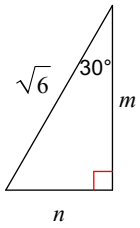

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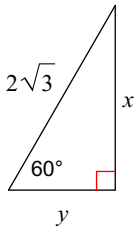

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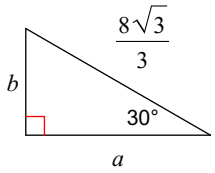

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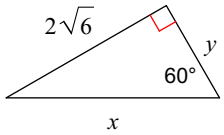

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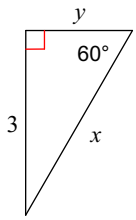

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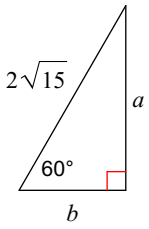

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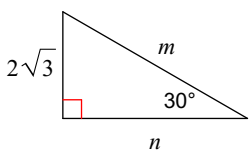

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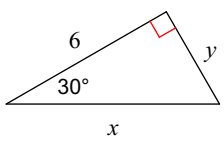

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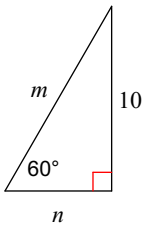

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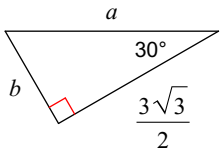

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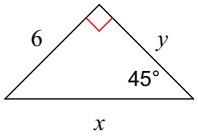

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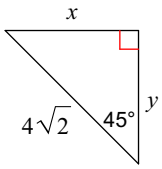

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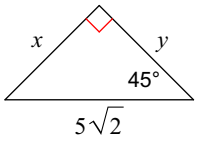

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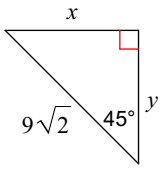

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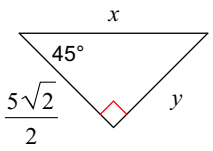

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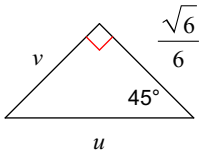

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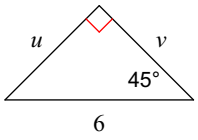

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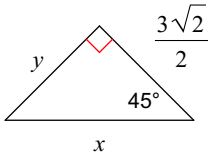

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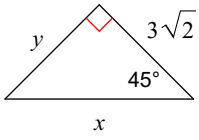

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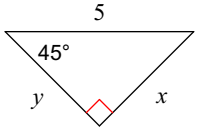

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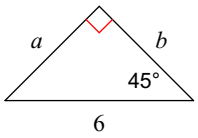

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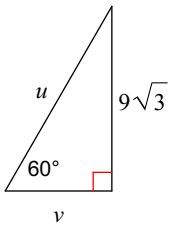

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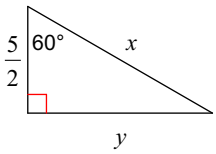

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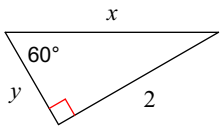

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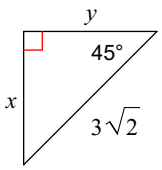

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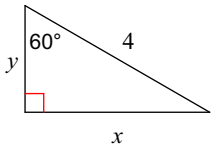

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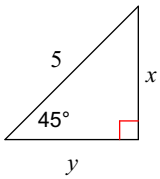

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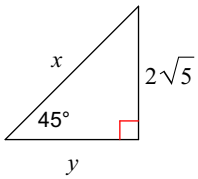

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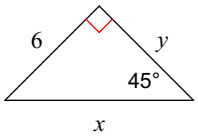

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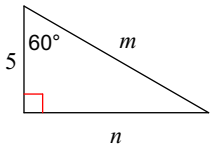

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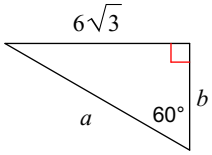
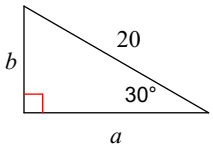


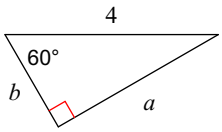
$a = 12,\ b = 6$

2)



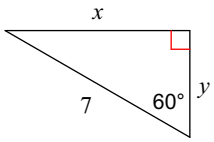
$a = 10\sqrt{3},\ b = 10$

3)



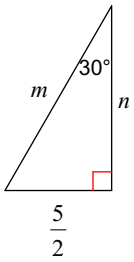
$a = 2\sqrt{3},\ b = 2$

4)



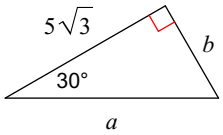
$x = \frac{7\sqrt{3}}{2},\ y = \frac{7}{2}$

5)



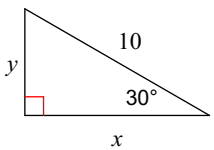
$m = 5,\ n = \frac{5\sqrt{3}}{2}$

6)



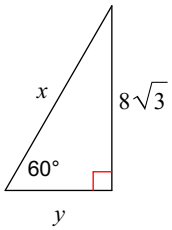
$a = 10,\ b = 5$

7)



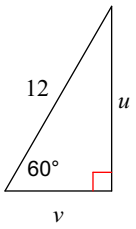
$x = 5\sqrt{3},\ y = 5$

8)



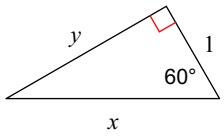
$x = 16,\ y = 8$

9)



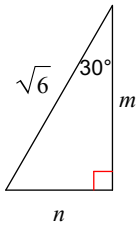
$u = 6\sqrt{3},\ v = 6$

10)



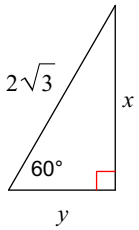
$x = 2,\ y = \sqrt{3}$

11)



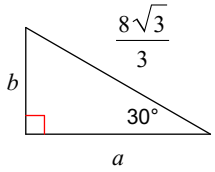
$m = \frac{3\sqrt{2}}{2},\ n = \frac{\sqrt{6}}{2}$

12)



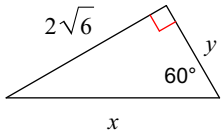
$x = 3,\ y = \sqrt{3}$

13)



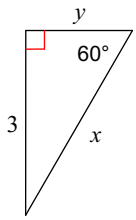
$a = 4,\ b = \frac{4\sqrt{3}}{3}$

14)



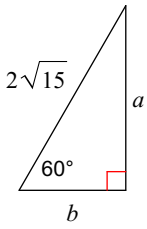
$x = 4\sqrt{2},\ y = 2\sqrt{2}$

15)



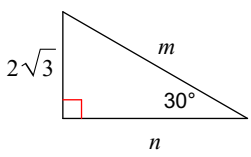
$x = 2\sqrt{3},\ y = \sqrt{3}$

16)



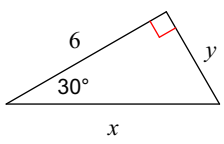
$a = 3\sqrt{5},\ b = \sqrt{15}$

17)



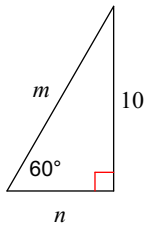
$m = 4\sqrt{3},\ n = 6$

18)



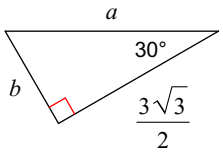
$x = 4\sqrt{3},\ y = 2\sqrt{3}$

19)



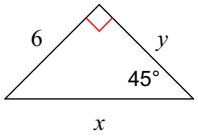
$m = \frac{20\sqrt{3}}{3},\ n = \frac{10\sqrt{3}}{3}$

20)



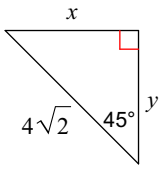
$a = 3,\ b = \frac{3}{2}$

21)



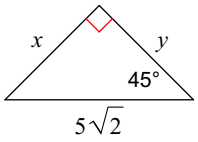
$x = 6\sqrt{2},\ y = 6$

22)



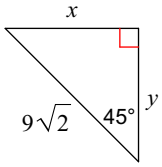
$x = 4,\ y = 4$

23)



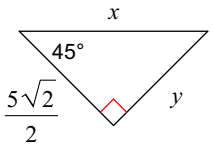
$x = 5,\ y = 5$

24)



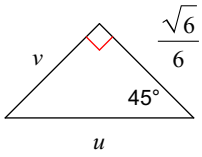
$x = 9,\ y = 9$

25)



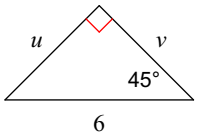
$x = 5,\ y = \frac{5\sqrt{2}}{2}$

26)



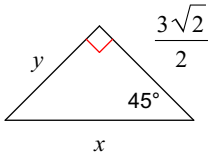
$u = \frac{\sqrt{3}}{3},\ v = \frac{\sqrt{6}}{6}$

27)



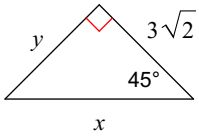
$u = 3\sqrt{2},\ v = 3\sqrt{2}$

28)



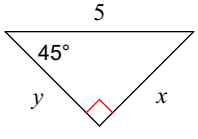
$x = 3,\ y = \frac{3\sqrt{2}}{2}$

29)



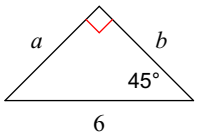
$x = 6,\ y = 3\sqrt{2}$

30)



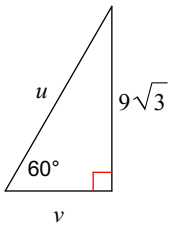
$x = \frac{5\sqrt{2}}{2},\ y = \frac{5\sqrt{2}}{2}$

31)



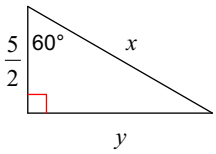
$a = 3\sqrt{2},\ b = 3\sqrt{2}$

32)



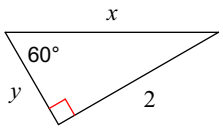
$u = 18,\ v = 9$

33)



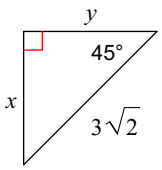
$x = 5,\ y = \frac{5\sqrt{3}}{2}$

34)



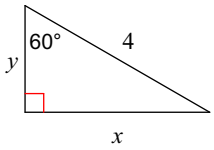
$x = \frac{4\sqrt{3}}{3},\ y = \frac{2\sqrt{3}}{3}$

35)



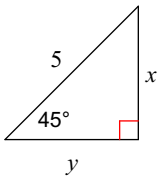
$x = 3,\ y = 3$

36)



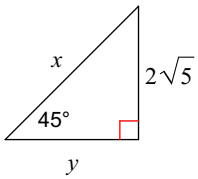
$x = 2\sqrt{3},\ y = 2$

37)



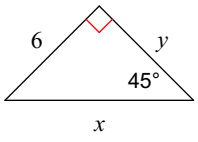
$x = \frac{5\sqrt{2}}{2},\ y = \frac{5\sqrt{2}}{2}$

38)



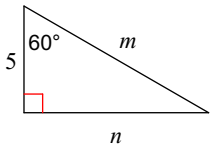
$x = 2\sqrt{10},\ y = 2\sqrt{5}$

39)



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

40)



$m = 10,\ n = 5\sqrt{3}$