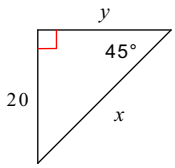
Geometry Name_____ ID: 1

Extra Practice 45-45-90/30-60-90 Right Triangles

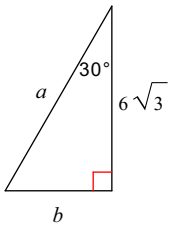
Date_____ Period____

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

1)



2)



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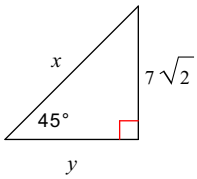

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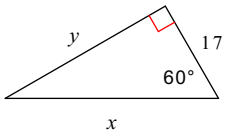
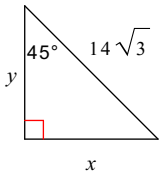


5)



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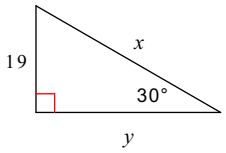

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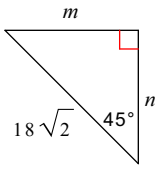

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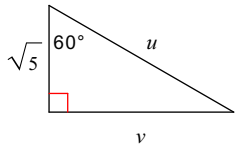

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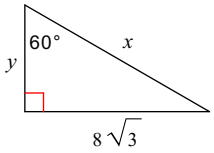
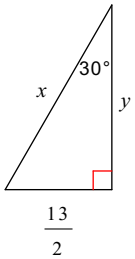


10)



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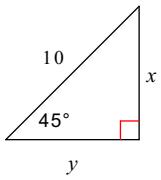

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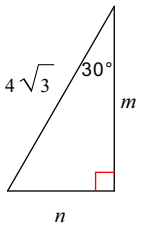

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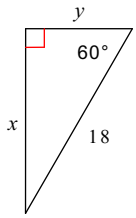

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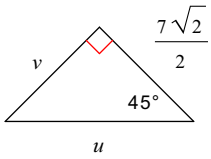

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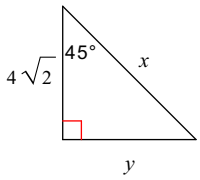
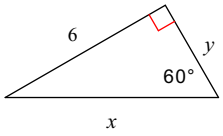
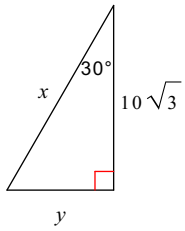


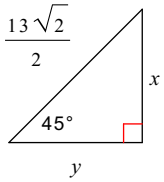
16)



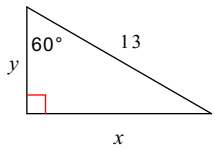
17)



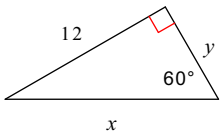
18)



19)



20)



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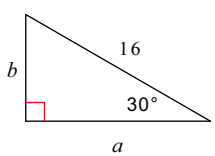

Geometry Name_____ ID: 1

Extra Practice 45-45-90/30-60-90 Right Triangles

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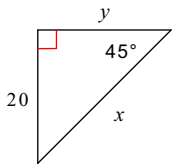
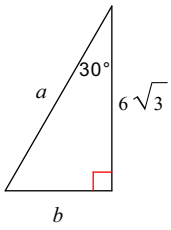
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



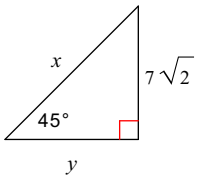
$x = 20\sqrt{2}$, $y = 20$

2)



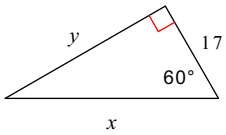
$a = 12$, $b = 6$

3)



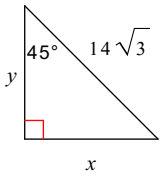
$x = 14$, $y = 7\sqrt{2}$

4)



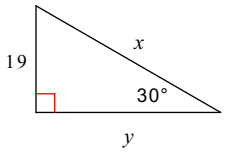
$x = 34$, $y = 17\sqrt{3}$

5)



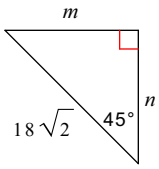
$x = 7\sqrt{6}$, $y = 7\sqrt{6}$

6)



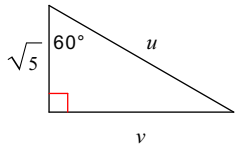
$x = 38$, $y = 19\sqrt{3}$

7)



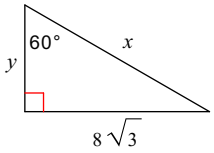
$m = 18$, $n = 18$

8)



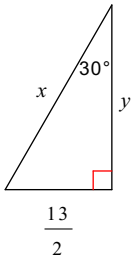
$u = 2\sqrt{5}$, $v = \sqrt{15}$

9)



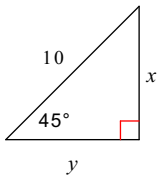
$x = 16$, $y = 8$

10)



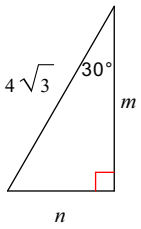
$x = 13$, $y = \frac{13\sqrt{3}}{2}$

11)



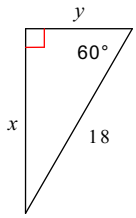
$x = 5\sqrt{2}$, $y = 5\sqrt{2}$

12)



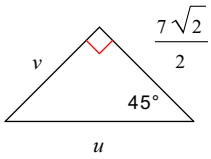
$m = 6$, $n = 2\sqrt{3}$

13)



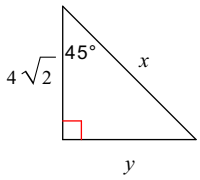
$x = 9\sqrt{3}$, $y = 9$

14)



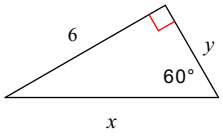
$u = 7$, $v = \frac{7\sqrt{2}}{2}$

15)



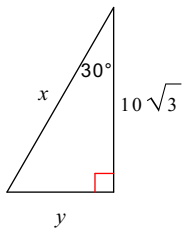
$x = 8$, $y = 4\sqrt{2}$

16)



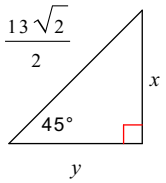
$x = 4\sqrt{3}$, $y = 2\sqrt{3}$

17)



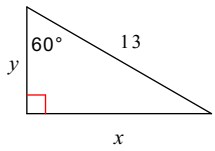
$x = 20$, $y = 10$

18)



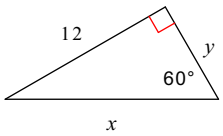
$x = \frac{13}{2}$, $y = \frac{13}{2}$

19)



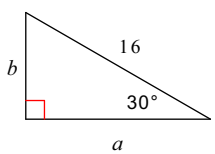
$x = \frac{13\sqrt{3}}{2}$, $y = \frac{13}{2}$

20)



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

21)



$a = 8\sqrt{3}$, $b = 8$