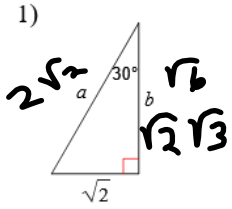
Geometry Name_____ ID: 1

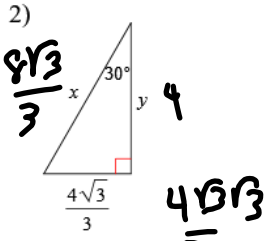
Assignment Date_____ Period____

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

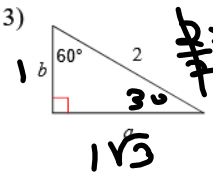
1)



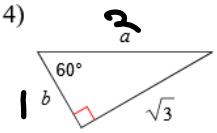
2)

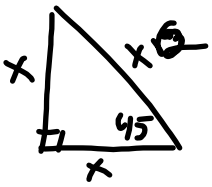


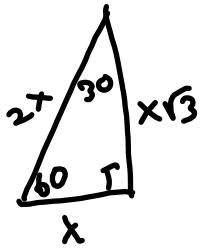
3)



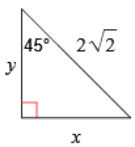
4)



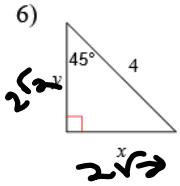




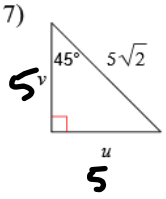
5)

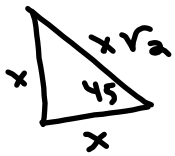


6)



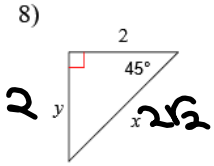
7)



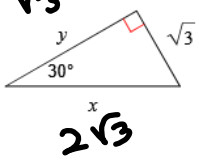


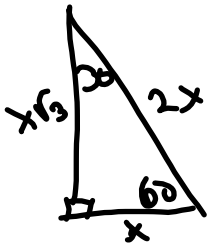
$x \cdot \frac{\sqrt{2}}{\sqrt{2}} = 3 \cdot \frac{\sqrt{2}}{\sqrt{2}}$

8)

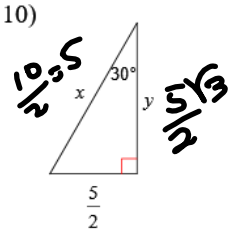


9) $\sqrt{3} \cdot \sqrt{3} = 3$

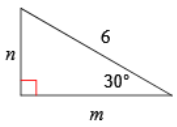




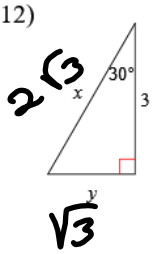
10)



11)

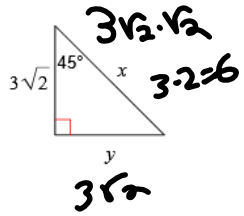


12)



$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{3}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{3\sqrt{3}}{3}$

13)

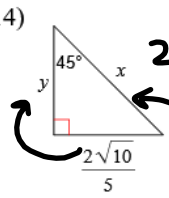


$3\sqrt{2}\cdot\sqrt{2}$

$3\cdot 2=6$

$3\sqrt{2}$

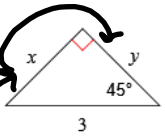
14)

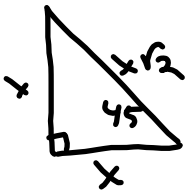


$\frac{2\sqrt{10}\cdot\sqrt{2}}{5}=\frac{2\sqrt{20}}{5}$

$\frac{2\cdot\sqrt{4}\cdot\sqrt{5}}{5}=\frac{4\sqrt{5}}{5}$

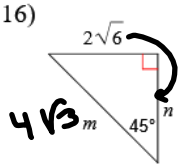
15)





$\frac{x\sqrt{2}}{\sqrt{2}}=\frac{3}{\sqrt{2}}\cdot\frac{\sqrt{2}}{\sqrt{2}}=\frac{3\sqrt{2}}{2}$

16)



$2\sqrt{6}\cdot\sqrt{2}$

$2\sqrt{12}$

$2\cdot\sqrt{4}\cdot\sqrt{3}$

$2\cdot 2\sqrt{3}$

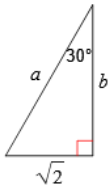
Geometry Name_____ ID: 1

Assignment

Date_____ Period____

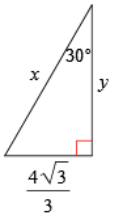
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



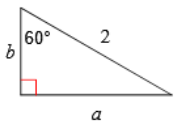
$a = 2\sqrt{2},\ b = \sqrt{6}$

2)



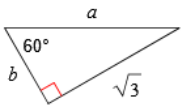
$x = \frac{8\sqrt{3}}{3},\ y = 4$

3)



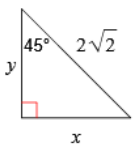
$a = \sqrt{3},\ b = 1$

4)



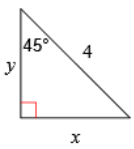
$a = 2,\ b = 1$

5)



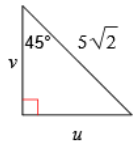
$x = 2,\ y = 2$

6)



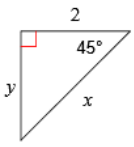
$x = 2\sqrt{2},\ y = 2\sqrt{2}$

7)



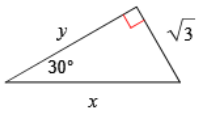
$u = 5,\ v = 5$

8)



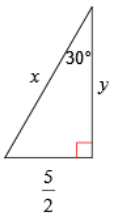
$x = 2\sqrt{2},\ y = 2$

9)



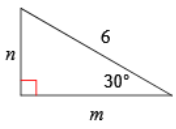
$x = 2\sqrt{3},\ y = 3$

10)



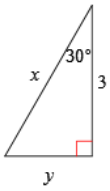
$x = 5,\ y = \frac{5\sqrt{3}}{2}$

11)



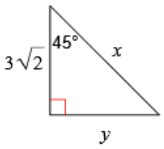
$m = 3\sqrt{3},\ n = 3$

12)



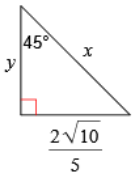
$x = 2\sqrt{3},\ y = \sqrt{3}$

13)



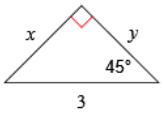
$x = 6,\ y = 3\sqrt{2}$

14)



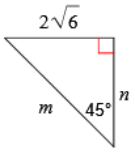
$x = \frac{4\sqrt{5}}{5},\ y = \frac{2\sqrt{10}}{5}$

15)



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

16)



$m = 4\sqrt{3},\ n = 2\sqrt{6}$