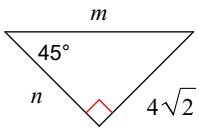
Geometry Name_____

3.5 - Special Right Trianlges (45-45-90)

Date_____

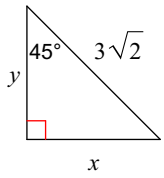
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



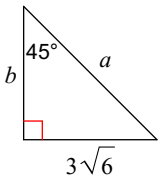
$m = 8,\ n = 4\sqrt{2}$

2)



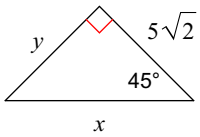
$x = 3,\ y = 3$

3)



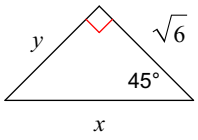
$a = 6\sqrt{3},\ b = 3\sqrt{6}$

4)



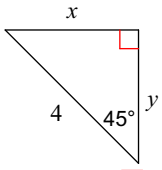
$x = 10,\ y = 5\sqrt{2}$

5)



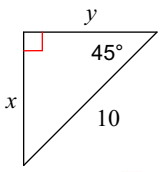
$x = 2\sqrt{3},\ y = \sqrt{6}$

6)



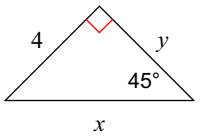
$x = 2\sqrt{2},\ y = 2\sqrt{2}$

7)



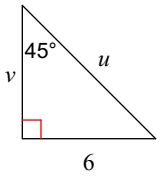
$x = 5\sqrt{2},\ y = 5\sqrt{2}$

8)



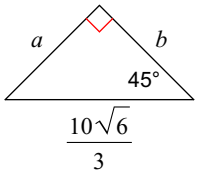
$x = 4\sqrt{2},\ y = 4$

9)



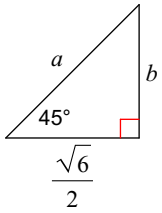
$u = 6\sqrt{2},\ v = 6$

10)



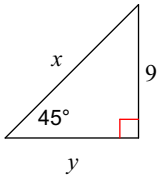
$a = \frac{10\sqrt{3}}{3},\ b = \frac{10\sqrt{3}}{3}$

11)



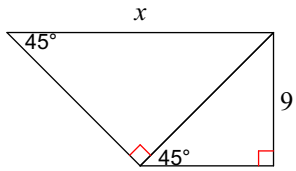
$a = \sqrt{3},\ b = \frac{\sqrt{6}}{2}$

12)



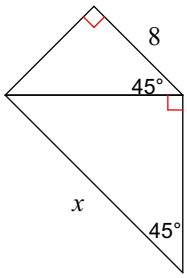
$x = 9\sqrt{2},\ y = 9$

13)



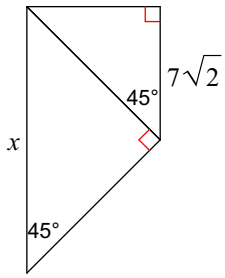
18

14)



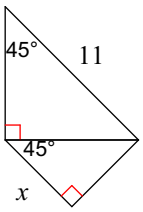
16

15)



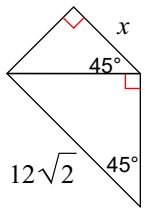
$14\sqrt{2}$

16)



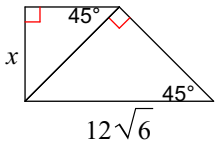
$\frac{11}{2}$

17)



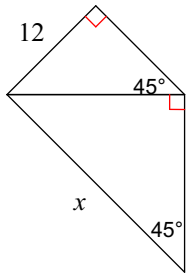
$6\sqrt{2}$

18)



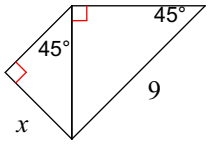
$6\sqrt{6}$

19)



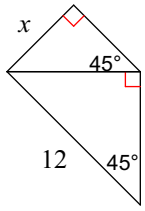
24

20)



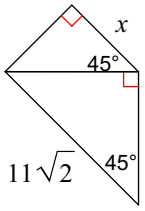
$\frac{9}{2}$

21)



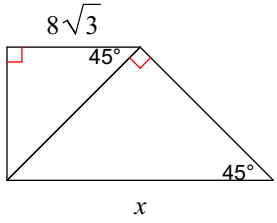
6

22)



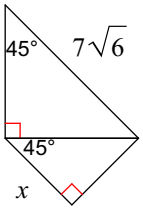
$\frac{11\sqrt{2}}{2}$

23)



$16\sqrt{3}$

24)



$\frac{7\sqrt{6}}{2}$

