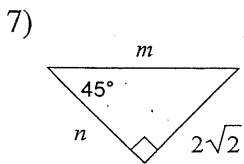
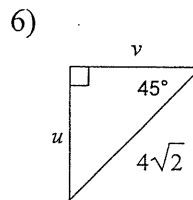
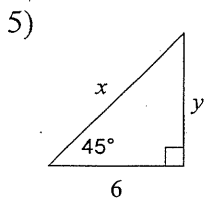
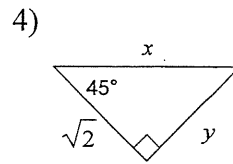
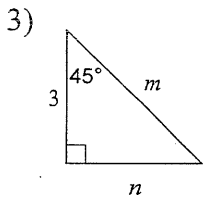
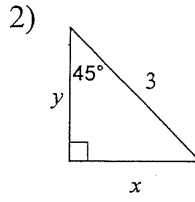
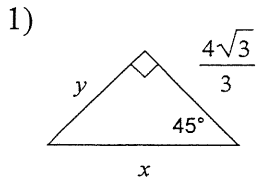
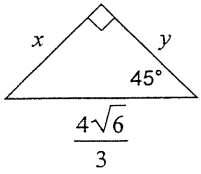


Assignment 45-45-90

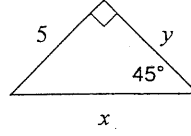
Find the missing side lengths. Leave your answers as radicals in simplest form.



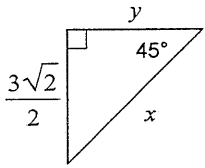
8)



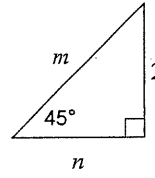
9)



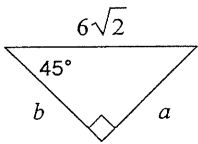
10)



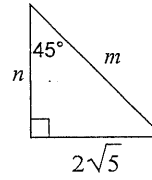
11)



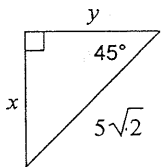
12)



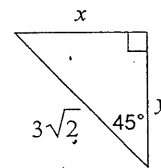
13)



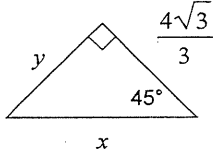
14)



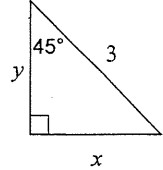
15)



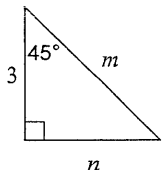
Find the missing side lengths. Leave your answers as radicals in simplest form.

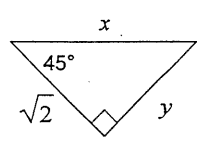
1)   $y = \frac{4\sqrt{3}}{3}$

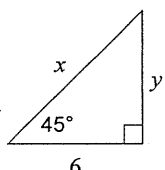
$$x = \frac{4\sqrt{3}}{3} \cdot \sqrt{2} = \frac{4\sqrt{6}}{3}$$

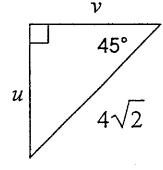
2)   $x = \frac{3}{\sqrt{2}} = \frac{3\sqrt{2}}{2}$   $x = \frac{3\sqrt{2}}{2}$

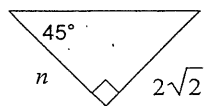
$$y = \frac{3\sqrt{2}}{2}$$

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

4)   $y = \sqrt{2}$   $x = \sqrt{2} \cdot \sqrt{2}$   $x = 2$

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

6)   $v = \frac{4\sqrt{2}}{\sqrt{2}} = 4$   $v = 4$   $u = 4$

7)   $n = 2\sqrt{2}$   $m = 4$

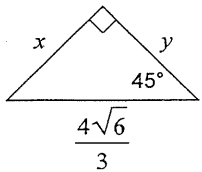
$$m = 2\sqrt{2} \cdot \sqrt{2}$$

$$= 2\sqrt{4}$$

$$= 2 \cdot 2 = 4$$

$$m = 4$$

8)

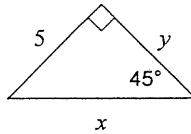


$$y = \frac{4\sqrt{6}}{3} \cdot \frac{1}{\sqrt{2}} = \frac{4\sqrt{3}}{3}$$

$$y = \frac{4\sqrt{3}}{3}$$

$$x = \frac{4\sqrt{3}}{3}$$

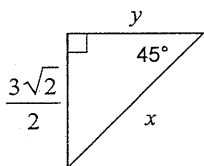
9)



$$y = 5$$

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

10)

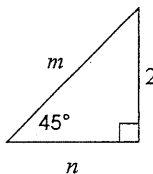


$$y = \frac{3\sqrt{2}}{2}$$

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

$$x = 3$$

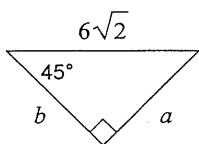
11)



$$n = 2$$

$$m = 2\sqrt{2}$$

12)

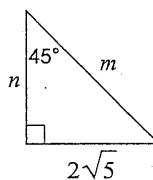


$$a = \frac{6\sqrt{2}}{\sqrt{2}} = 6$$

$$a = 6$$

$$b = 6$$

13)

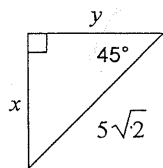


$$n = 2\sqrt{5}$$

$$m = 2\sqrt{5} \cdot \sqrt{2}$$

$$m = 2\sqrt{10}$$

14)

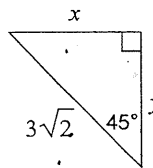


$$x = \frac{5\sqrt{2}}{\sqrt{2}} = 5$$

$$x = 5$$

$$y = 5$$

15)



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

$$x = 3$$

$$y = 3$$