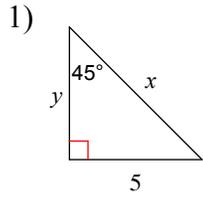
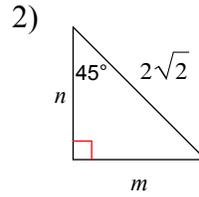


Assignment

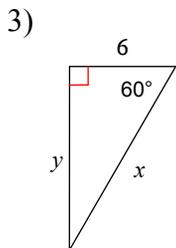
Find the missing side lengths. Leave your answers as radicals in simplest form.



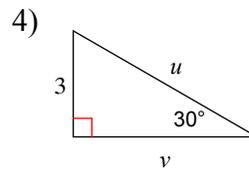
- A) $x = \frac{10\sqrt{6}}{3}, y = \frac{10\sqrt{3}}{3}$
- B) $x = \frac{10\sqrt{3}}{3}, y = \frac{10\sqrt{6}}{3}$
- C) $x = \frac{10\sqrt{6}}{3}, y = 5$
- D) $x = 5\sqrt{2}, y = 5$



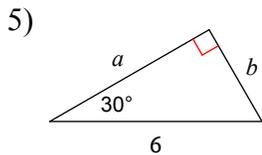
- A) $m = \sqrt{2}, n = \sqrt{2}$
- B) $m = 2, n = 2$
- C) $m = 2\sqrt{2}, n = 2\sqrt{2}$
- D) $m = \frac{4\sqrt{3}}{3}, n = \sqrt{2}$



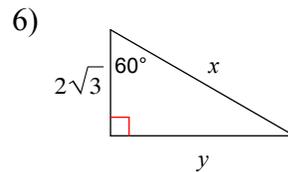
- A) $x = 12\sqrt{2}, y = 6\sqrt{3}$
- B) $x = 12, y = 6\sqrt{3}$
- C) $x = 12, y = 12$
- D) $x = 12\sqrt{2}, y = 12$



- A) $u = 3\sqrt{2}, v = 3\sqrt{3}$
- B) $u = 3\sqrt{3}, v = 6$
- C) $u = 3\sqrt{3}, v = 3\sqrt{2}$
- D) $u = 6, v = 3\sqrt{3}$

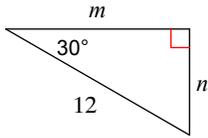


- A) $a = 3\sqrt{3}, b = 2\sqrt{3}$
- B) $a = 3\sqrt{3}, b = 3$
- C) $a = 3\sqrt{6}, b = 3$
- D) $a = 3\sqrt{6}, b = 2\sqrt{3}$



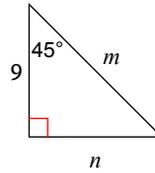
- A) $x = 12, y = 3\sqrt{2}$
- B) $x = 3\sqrt{2}, y = 12$
- C) $x = 4\sqrt{3}, y = 6$
- D) $x = 4\sqrt{3}, y = 3\sqrt{2}$

7)



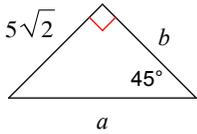
- A) $m = 6\sqrt{3}$, $n = 3$
 B) $m = 6\sqrt{3}$, $n = 6$
 C) $m = 6$, $n = 6\sqrt{3}$
 D) $m = 9$, $n = 6$

8)



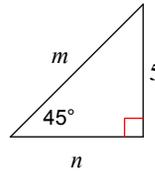
- A) $m = 9\sqrt{6}$, $n = 9$
 B) $m = 9\sqrt{6}$, $n = \frac{9}{2}$
 C) $m = 9\sqrt{2}$, $n = 9$
 D) $m = \frac{9}{2}$, $n = 9\sqrt{6}$

9)



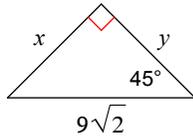
- A) $a = 10$, $b = 5\sqrt{2}$
 B) $a = \frac{20\sqrt{3}}{3}$, $b = \frac{5\sqrt{6}}{2}$
 C) $a = 10$, $b = \frac{5\sqrt{6}}{2}$
 D) $a = \frac{20\sqrt{3}}{3}$, $b = 5\sqrt{2}$

10)



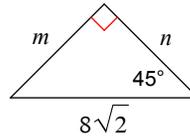
- A) $m = 10$, $n = \frac{5\sqrt{2}}{2}$
 B) $m = 5$, $n = 5\sqrt{2}$
 C) $m = 5\sqrt{2}$, $n = 5$
 D) $m = 10$, $n = 5$

11)



- A) $x = 18$, $y = 18$
 B) $x = \frac{9\sqrt{2}}{2}$, $y = \frac{9\sqrt{2}}{2}$
 C) $x = 9$, $y = 9$
 D) $x = 9\sqrt{3}$, $y = 9\sqrt{3}$

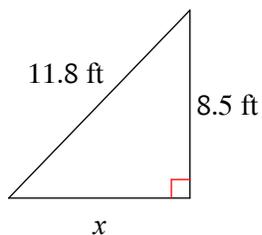
12)



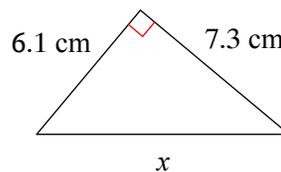
- A) $m = 8\sqrt{3}$, $n = 8\sqrt{3}$
 B) $m = \frac{8\sqrt{3}}{3}$, $n = \frac{16\sqrt{3}}{3}$
 C) $m = 4$, $n = 4$
 D) $m = 8$, $n = 8$

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

13)

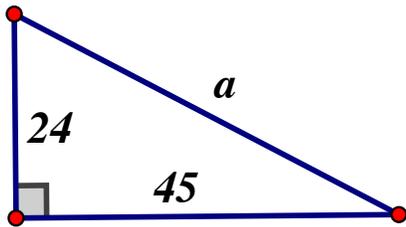


14)

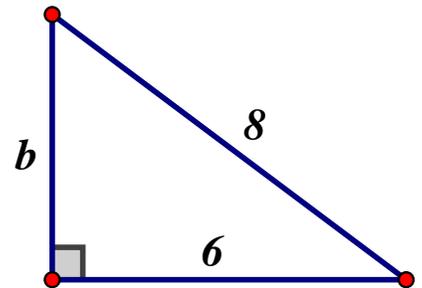


In each of the problems #15 – 20, you are given a right triangle with one unknown side length. Find each missing side length.

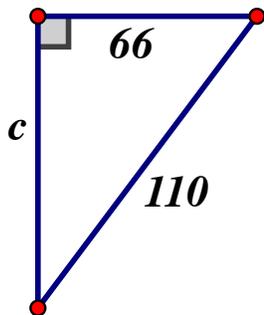
15.



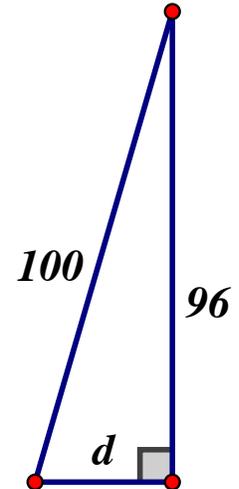
16.



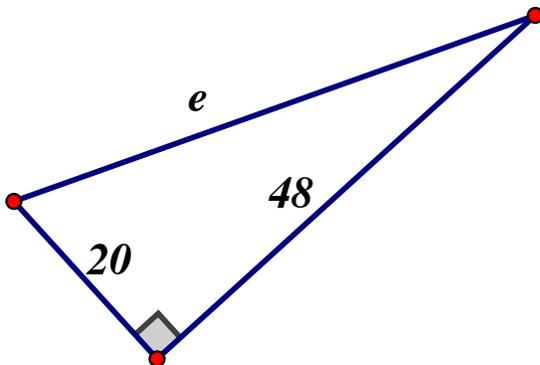
17.



18.



19.



20.

