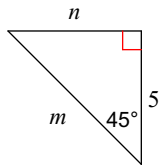


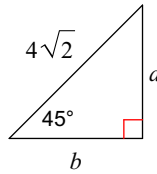
WS 18.3 Special Right Triangles

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

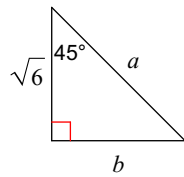
1)



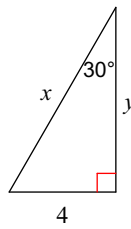
2)



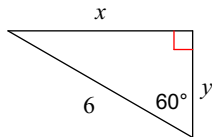
3)



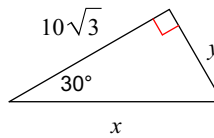
4)



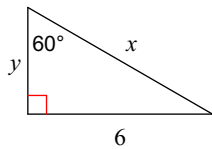
5)



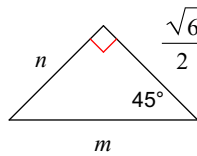
6)



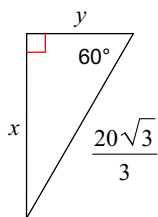
7)



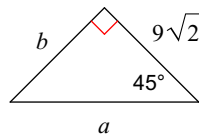
8)



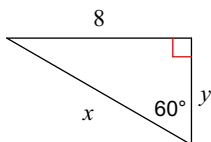
9)



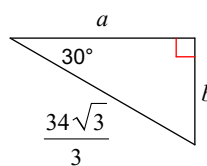
10)



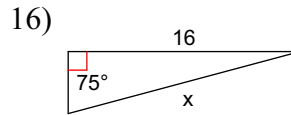
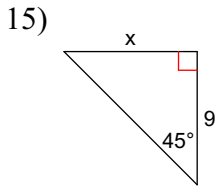
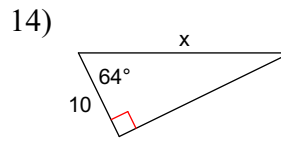
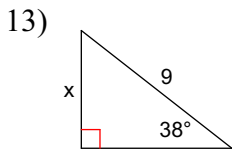
11)



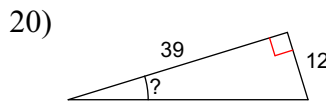
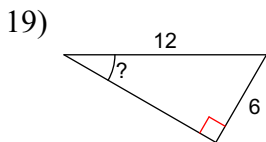
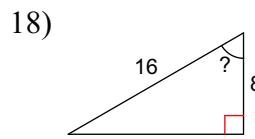
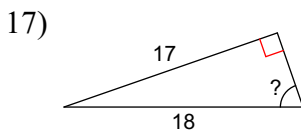
12)



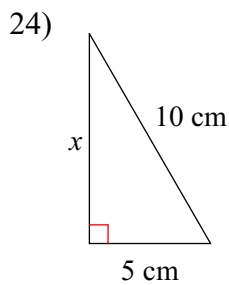
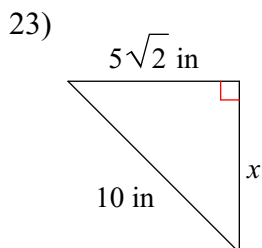
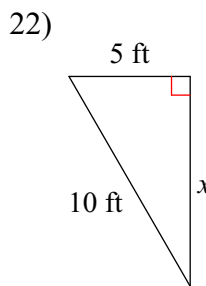
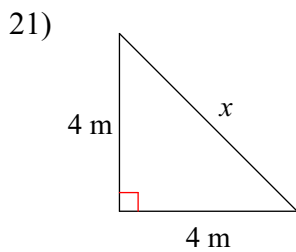
Find the exact measure of the missing side. (Use trigonometry when needed.)



Find the measure of the indicated angle to the nearest degree. Use inverse trig when needed.



Use trig ratios to find the missing side of each triangle.



Answers to WS 18.3 Special Right Triangles

1) $m = 5\sqrt{2}$, $n = 5$

2) $a = 4$, $b = 4$

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

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

5) $x = 3\sqrt{3}$, $y = 3$

6) $x = 20$, $y = 10$

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

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

9) $x = 10$, $y = \frac{10\sqrt{3}}{3}$

10) $a = 18$, $b = 9\sqrt{2}$

11) $x = \frac{16\sqrt{3}}{3}$, $y = \frac{8\sqrt{3}}{3}$

12) $a = 17$, $b = \frac{17\sqrt{3}}{3}$

13) 5.5

14) 22.8

15) 9.0

16) 16.6

17) 71°

18) 60°

19) 30°

20) 17°

21) $4\sqrt{2}$ m

22) $5\sqrt{3}$ ft

23) $5\sqrt{2}$ in

24) $5\sqrt{3}$ cm