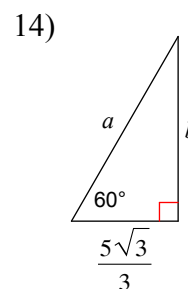
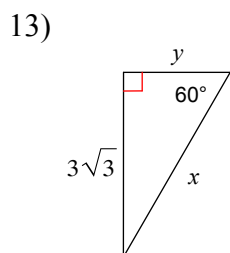
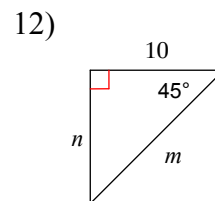
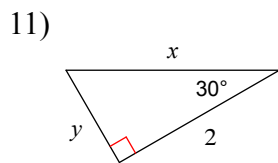
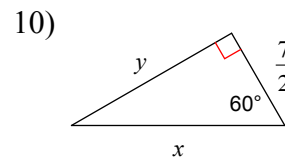
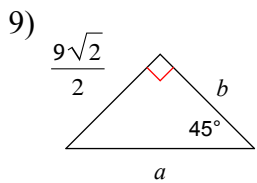
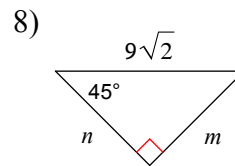
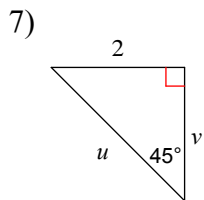
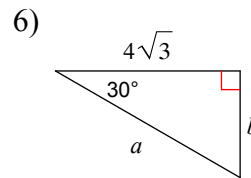
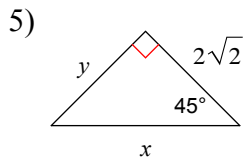
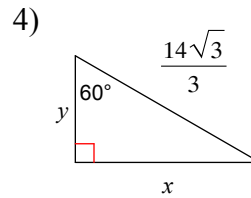
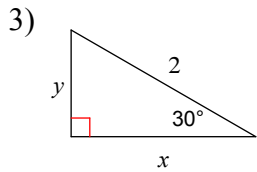
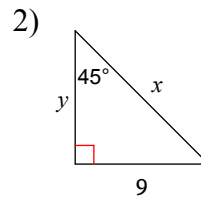
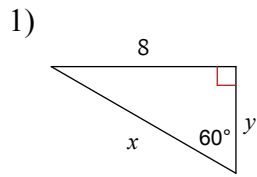
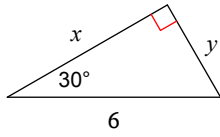


Chapter 13: Right Triangles and Trigonometry

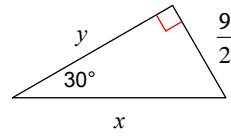
Find the missing side lengths. Leave your answers as radicals in simplest form.



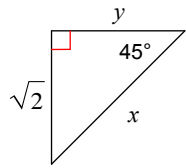
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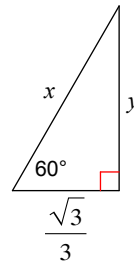
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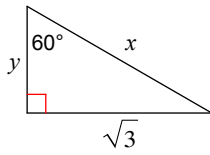
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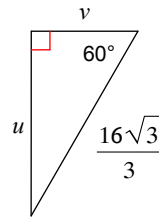
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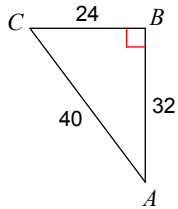
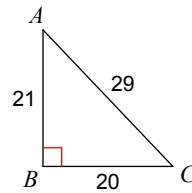
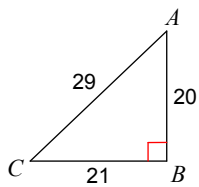
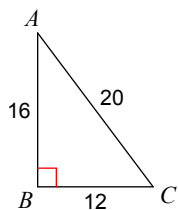
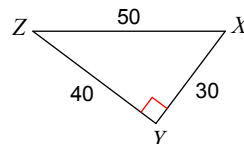
19)



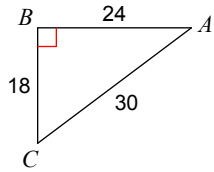
20)



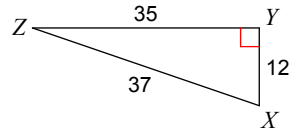
Find the value of each trigonometric ratio.

21) $\tan C$ 22) $\tan A$ 23) $\cos C$ 24) $\cos X$ 25) $\sin A$ 26) $\tan Z$ 

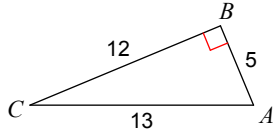
27) $\cos C$



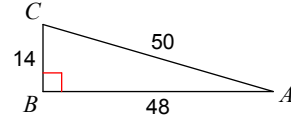
28) $\tan X$



29) $\sin C$

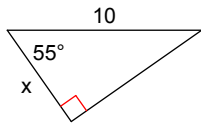


30) $\sin A$

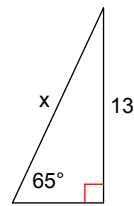


Find the missing side. Round to the nearest tenth.

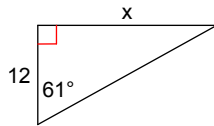
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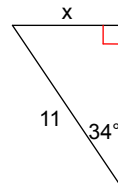
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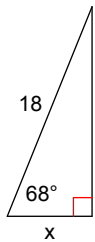
33)



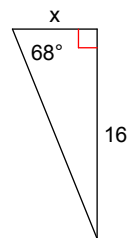
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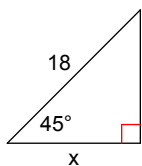
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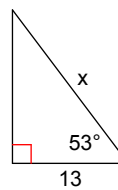
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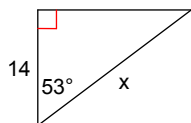
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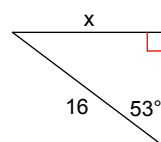
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39)

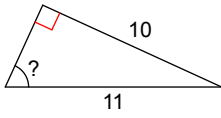


40)

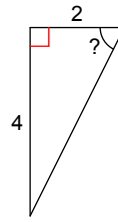


Find the measure of the indicated angle to the nearest degree.

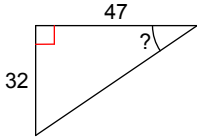
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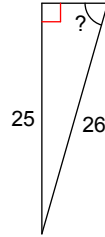
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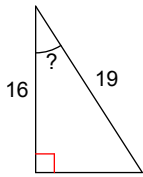
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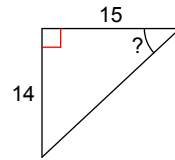
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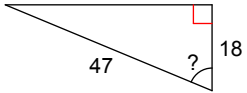
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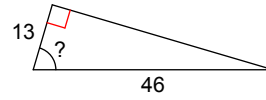
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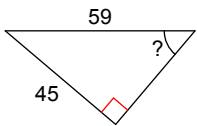
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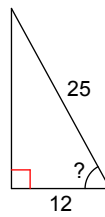
48)



49)



50)



Answers to Chapter 13: Right Triangles and Trigonometry (ID: 2)

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

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

3) $x = \sqrt{3}, y = 1$

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

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

6) $a = 8, b = 4$

7) $u = 2\sqrt{2}, v = 2$

8) $m = 9, n = 9$

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

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

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

12) $m = 10\sqrt{2}, n = 10$

13) $x = 6, y = 3$

14) $a = \frac{10\sqrt{3}}{3}, b = 5$

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

16) $x = 9, y = \frac{9\sqrt{3}}{2}$

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

18) $x = \frac{2\sqrt{3}}{3}, y = 1$

19) $x = 2, y = 1$

20) $u = 8, v = \frac{8\sqrt{3}}{3}$

21) $\frac{4}{3}$

22) $\frac{20}{21}$

23) $\frac{21}{29}$

24) $\frac{24}{25}$

25) $\frac{3}{5}$

26) $\frac{3}{4}$

27) $\frac{3}{5}$

28) $\frac{35}{12}$

29) $\frac{5}{13}$

30) $\frac{7}{25}$

31) 5.7

32) 14.3

33) 21.6

34) 6.2

35) 6.7

36) 6.5

37) 12.7

38) 21.6

39) 23.3

40) 12.8

41) 65°

42) 63°

43) 34°

44) 74°

45) 33°

46) 43°

47) 67°

48) 74°

49) 50°

50) 61°