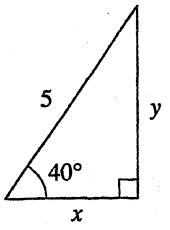
15–18 ■ Find the sides labeled x and y, correct to two decimal places.

15.



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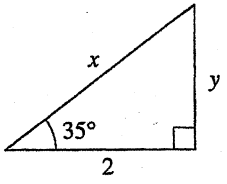

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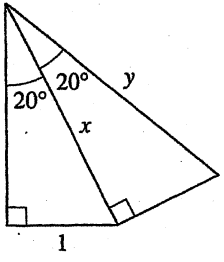

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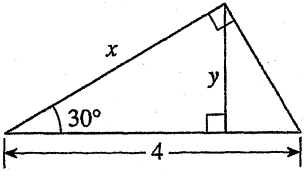


47–50 ■ Find the values of the six trigonometric functions of θ from the information given.

47. $\tan\theta = \sqrt{7}/3, \quad \sec\theta = \frac{4}{3}$

48. $\sec\theta = \frac{41}{40}, \quad \csc\theta = -\frac{41}{9}$

49. $\sin\theta = \frac{3}{5}, \quad \cos\theta < 0$

50. $\sec\theta = -\frac{13}{5}, \quad \tan\theta > 0$

51. If $\tan\theta = -\frac{1}{2}$ for θ in quadrant II, find $\sin\theta + \cos\theta$.

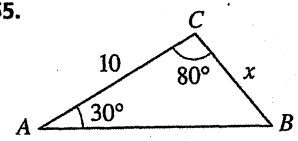
52. If $\sin\theta = \frac{1}{2}$ for θ in quadrant I, find $\tan\theta + \sec\theta$.

53. If $\tan\theta = -1$, find $\sin^2\theta + \cos^2\theta$.

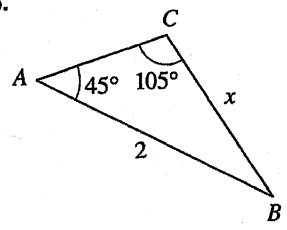
54. If $\cos\theta = -\sqrt{3}/2$ and $\pi/2 < \theta < \pi$, find $\sin 2\theta$.

55–60 ■ Find the side labeled x.

55.



56.



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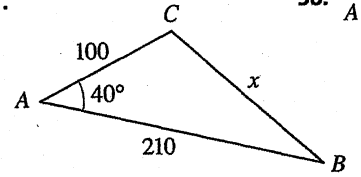

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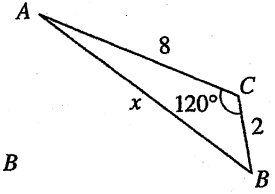

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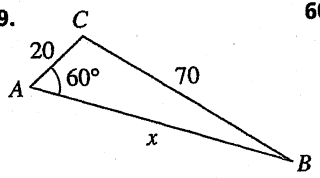

60.