

Inverse Trigonometric Ratios

Find each angle measure to the nearest degree.

1) $\sin B = 0.4848$

2) $\sin A = 0.5150$

3) $\cos A = 0.7431$

4) $\cos W = 0.6157$

5) $\cos A = 0.5878$

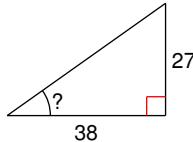
6) $\tan W = 19.0811$

7) $\cos A = 0.4226$

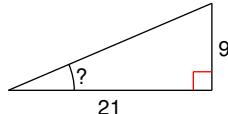
8) $\tan W = 0.5317$

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

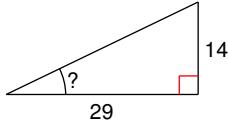
9)



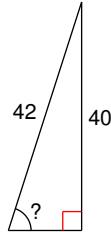
10)



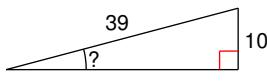
11)



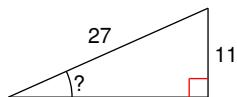
12)



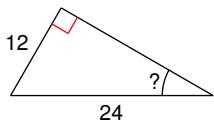
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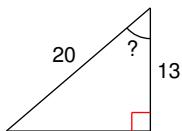
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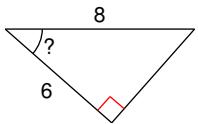
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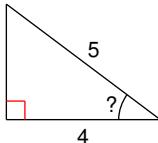
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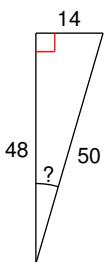
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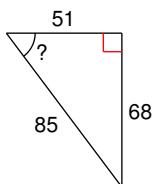
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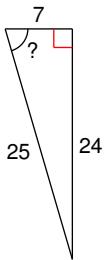
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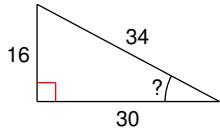
20)



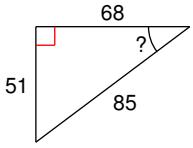
21)



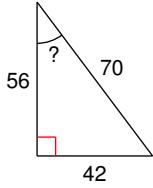
22)



23)



24)



Critical thinking questions:

25) Find an angle x where $\sin x = \cos x$.26) Draw and label all three sides of a right triangle that has a 40° angle and a hypotenuse of 10 cm.

Inverse Trigonometric Ratios

Find each angle measure to the nearest degree.

1) $\sin B = 0.4848$

29°

2) $\sin A = 0.5150$

31°

3) $\cos A = 0.7431$

42°

4) $\cos W = 0.6157$

52°

5) $\cos A = 0.5878$

54°

6) $\tan W = 19.0811$

87°

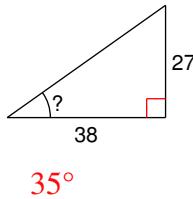
7) $\cos A = 0.4226$

65°

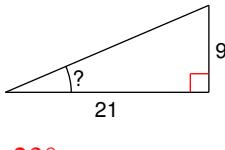
8) $\tan W = 0.5317$

28°**Find the measure of the indicated angle to the nearest degree.**

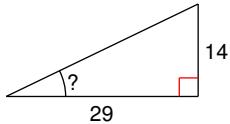
9)

**35°**

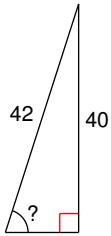
10)

**23°**

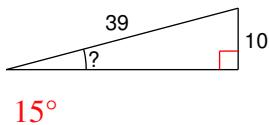
11)

**26°**

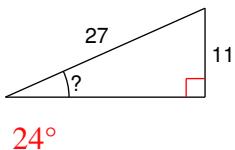
12)

**72°**

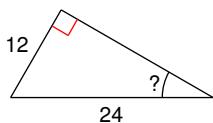
13)

**15°**

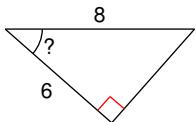
14)

**24°**

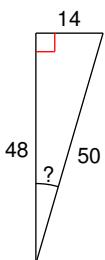
15)

 30°

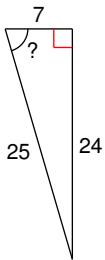
17)

 41°

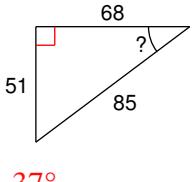
19)

 16°

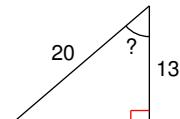
21)

 74°

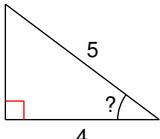
23)

 37°

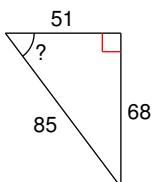
16)

 49°

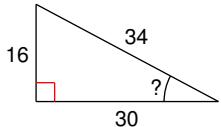
18)

 37°

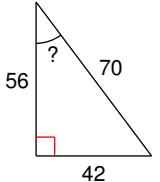
20)

 53°

22)

 28°

24)

 37°

Critical thinking questions:

25) Find an angle x where $\sin x = \cos x$. 45° 26) Draw and label all three sides of a right triangle that has a 40° angle and a hypotenuse of 10 cm.

Sides are: 10 cm, 6.4 cm, and 7.7 cm.

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