

## Using Trigonometry to Find Angle Measures

**Find each angle measure to the nearest degree.**

1)  $\tan A = 2.0503$

2)  $\cos Z = 0.1219$

3)  $\tan Y = 0.6494$

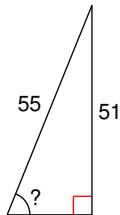
4)  $\sin U = 0.8746$

5)  $\cos V = 0.6820$

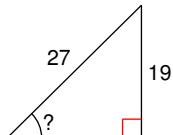
6)  $\sin C = 0.2756$

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

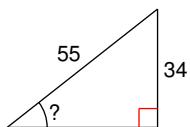
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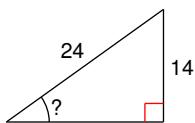
8)



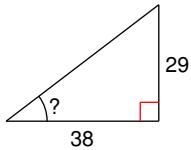
9)



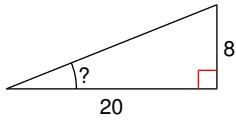
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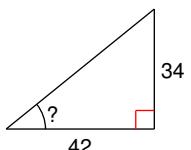
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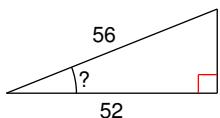
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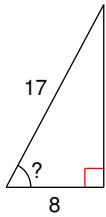
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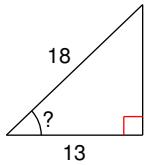
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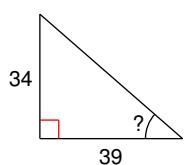
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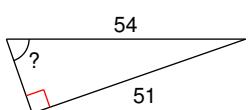
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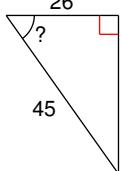
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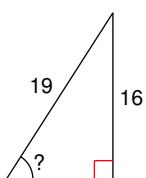
18)



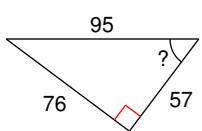
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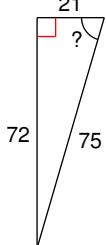
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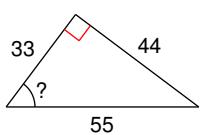
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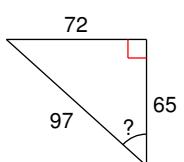
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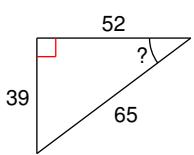
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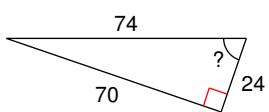
24)



25)



26)



## Using Trigonometry to Find Angle Measures

Date\_\_\_\_\_ Period\_\_\_\_

**Find each angle measure to the nearest degree.**

1)  $\tan A = 2.0503$

64°

2)  $\cos Z = 0.1219$

83°

3)  $\tan Y = 0.6494$

33°

4)  $\sin U = 0.8746$

61°

5)  $\cos V = 0.6820$

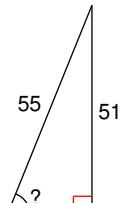
47°

6)  $\sin C = 0.2756$

16°

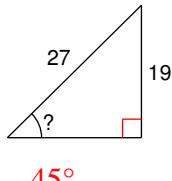
**Find the measure of the indicated angle to the nearest degree.**

7)



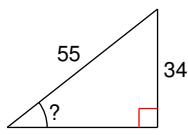
68°

8)



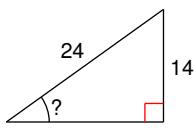
45°

9)



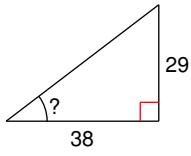
38°

10)



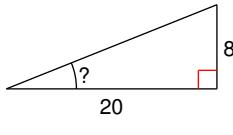
36°

11)



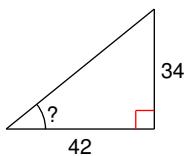
37°

12)



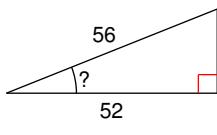
22°

13)



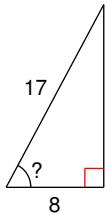
39°

14)

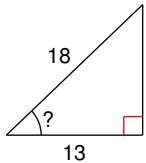


22°

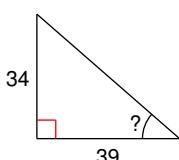
15)

 $62^\circ$ 

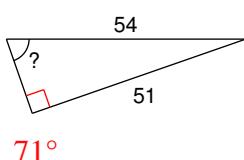
16)

 $44^\circ$ 

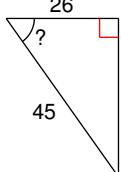
17)

 $41^\circ$ 

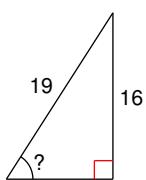
18)

 $71^\circ$ 

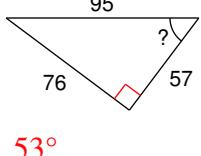
19)

 $55^\circ$ 

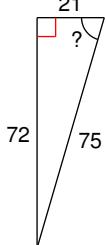
20)

 $57^\circ$ 

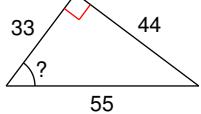
21)

 $53^\circ$ 

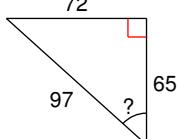
22)

 $74^\circ$ 

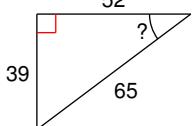
23)

 $53^\circ$ 

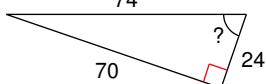
24)

 $48^\circ$ 

25)

 $37^\circ$ 

26)

 $71^\circ$