

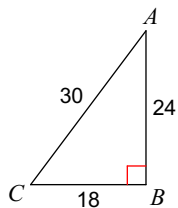
# Trigonometry Introduction

Name \_\_\_\_\_

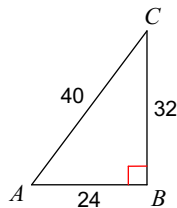
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Find the value of each trigonometric ratio to the nearest ten-thousandth.

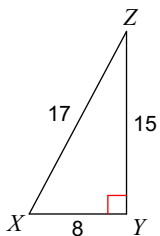
1)  $\cos C$



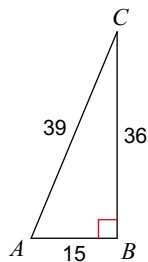
2)  $\tan A$



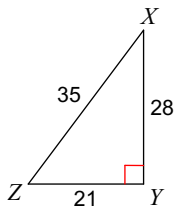
3)  $\tan X$



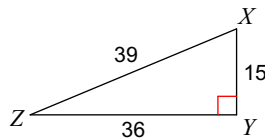
4)  $\sin A$



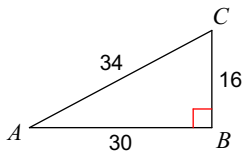
5)  $\cos Z$



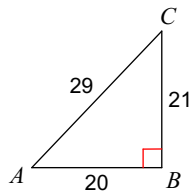
6)  $\sin Z$



7)  $\cos A$



8)  $\sin A$

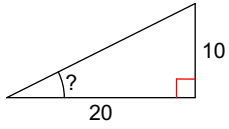


9)  $\cos 27^\circ$

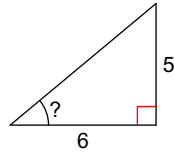
10)  $\cos 13^\circ$

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

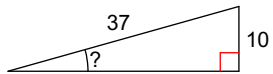
11)



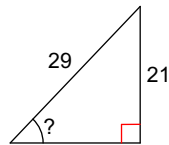
12)



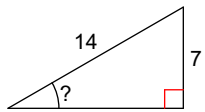
13)



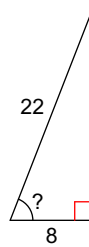
14)



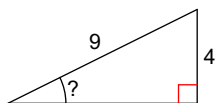
15)



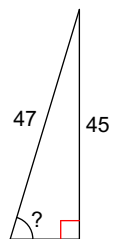
16)



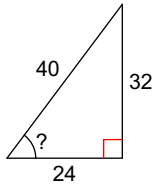
17)



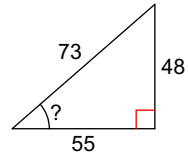
18)



19)

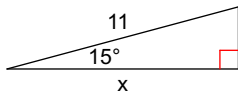


20)

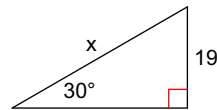


**Find the missing side. Round to the nearest tenth.**

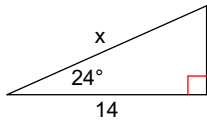
21)



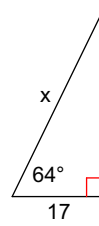
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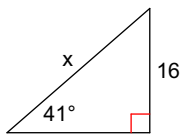
23)



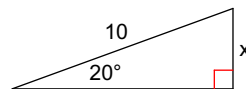
24)



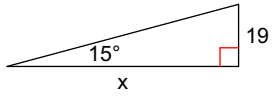
25)



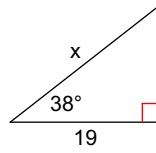
26)



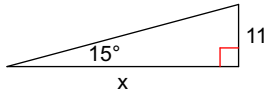
27)



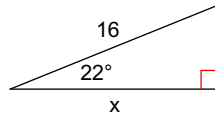
28)



29)

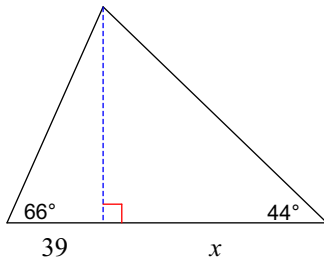


30)

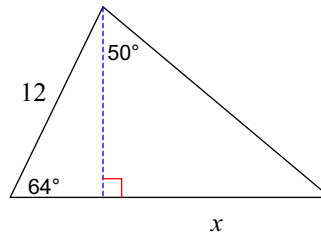


**Find the length of the side labeled  $x$ . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.**

31)



32)



## Answers to Trigonometry Introduction

- |                |                |                |                |
|----------------|----------------|----------------|----------------|
| 1) 0.6000      | 2) 1.3333      | 3) 1.8750      | 4) 0.9231      |
| 5) 0.6000      | 6) 0.3846      | 7) 0.8824      | 8) 0.7241      |
| 9) 0.8910      | 10) 0.9744     | 11) $27^\circ$ | 12) $40^\circ$ |
| 13) $16^\circ$ | 14) $46^\circ$ | 15) $30^\circ$ | 16) $69^\circ$ |
| 17) $26^\circ$ | 18) $73^\circ$ | 19) $53^\circ$ | 20) $41^\circ$ |
| 21) 10.6       | 22) 38.0       | 23) 15.3       | 24) 38.8       |
| 25) 24.4       | 26) 3.4        | 27) 70.9       | 28) 24.1       |
| 29) 41.1       | 30) 14.8       | 31) 90.7       | 32) 12.9       |