

WS 18.2: Sine and Cosine Ratios

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

1)  $\cos 25^\circ$

2)  $\sin 5^\circ$

3)  $\sin 56^\circ$

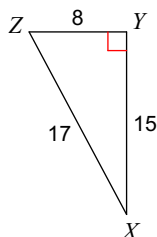
4)  $\cos 81^\circ$

5)  $\cos 86^\circ$

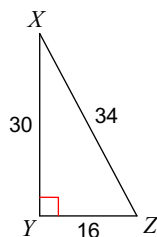
6)  $\sin 60^\circ$

Find the exact value of each trigonometric ratio, then round to the nearest thousandth.

7)  $\cos X$



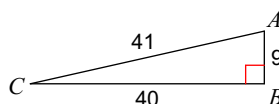
8)  $\sin Z$



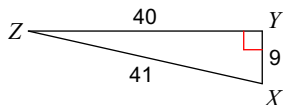
9)  $\sin X$



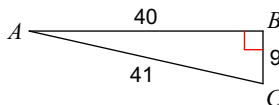
10)  $\cos C$



11)  $\cos X$

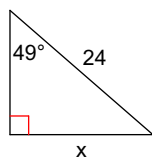


12)  $\sin C$

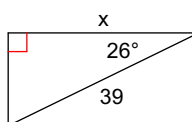


Find the missing side. Round to the nearest tenth.

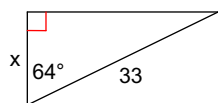
13)



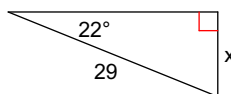
14)



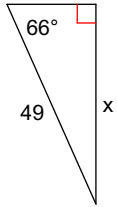
15)



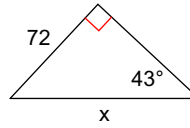
16)



17)



18)



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

19)  $\sin A = 0.7660$

20)  $\sin Z = 0.2588$

21)  $\cos V = 0.5446$

22)  $\cos C = 0.8829$

23)  $\sin U = 0.9703$

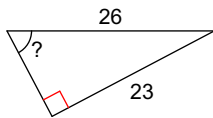
24)  $\cos Y = 0.9998$

25)  $\sin B = 0.1564$

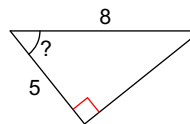
26)  $\sin C = 0.9903$

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

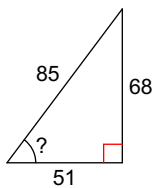
27)



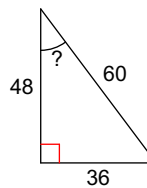
28)



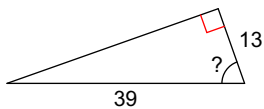
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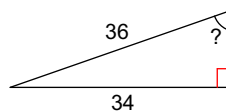
30)



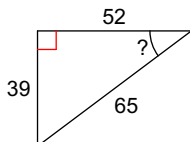
31)



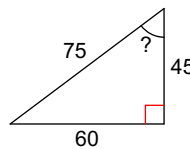
32)



33)



34)



## Answers to WS 18.2: Sine and Cosine Ratios

1) 0.9063  
5) 0.0698

2) 0.0872  
6) 0.8660

3) 0.8290  
7)  $\frac{15}{17}$

4) 0.1564  
8)  $\frac{15}{17}$

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

10)  $\frac{40}{41}$

11)  $\frac{9}{41}$

12)  $\frac{40}{41}$

13) 18.1

14) 35.1

15) 14.5

16) 10.9

17) 44.8

18) 105.6

19)  $50^\circ$

20)  $15^\circ$

21)  $57^\circ$

22)  $28^\circ$

23)  $76^\circ$

24)  $1^\circ$

25)  $9^\circ$

26)  $82^\circ$

27)  $62^\circ$

28)  $51^\circ$

29)  $53^\circ$

30)  $37^\circ$

31)  $71^\circ$

32)  $71^\circ$

33)  $37^\circ$

34)  $53^\circ$