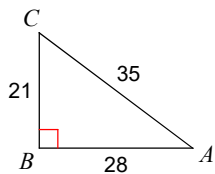


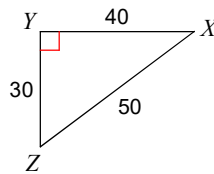
Assignment

Find the value of each trigonometric ratio. Leave your answers as simplified fractions.

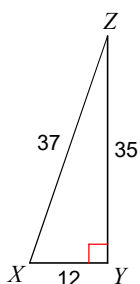
1) $\tan C = \frac{4}{3}$



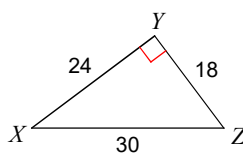
2) $\tan X = \frac{3}{4}$



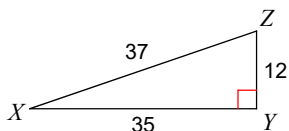
3) $\tan Z = \frac{12}{35}$



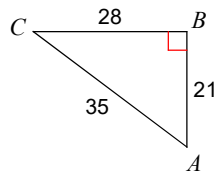
4) $\tan Z = \frac{4}{3}$



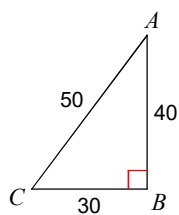
5) $\sin X = \frac{12}{37}$



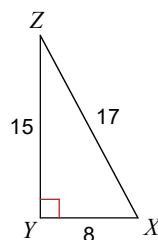
6) $\sin A = \frac{4}{5}$



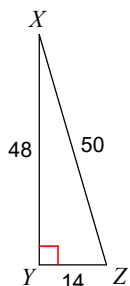
7) $\sin C = \frac{4}{5}$



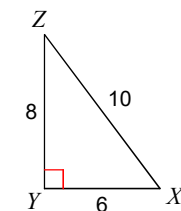
8) $\sin Z = \frac{8}{17}$



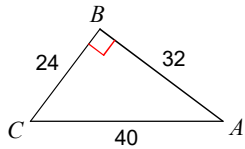
9) $\cos Z = \frac{7}{25}$



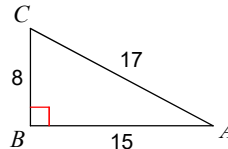
10) $\cos Z = \frac{4}{5}$



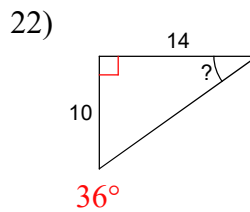
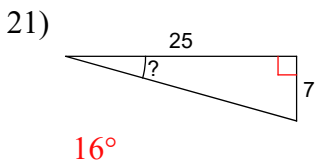
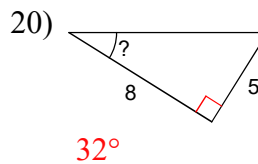
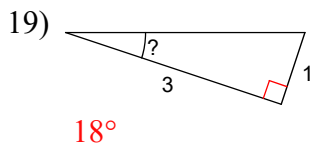
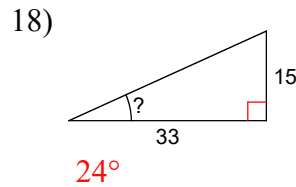
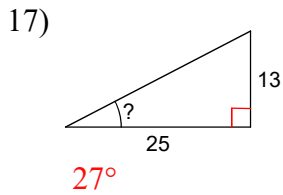
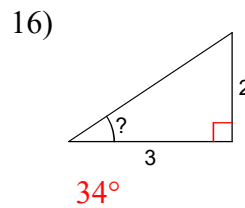
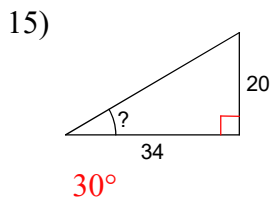
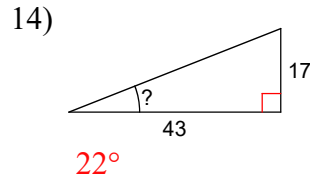
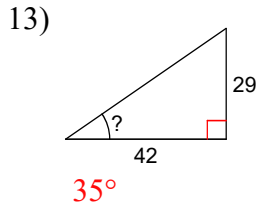
11) $\cos A = \frac{4}{5}$



12) $\cos A = \frac{15}{17}$



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



Find each angle measure to the nearest degree.

23) $\tan C = 2.4751$
 68°

24) $\tan B = 1.3764$
 54°

25) $\cos C = 0.9135$
 24°

26) $\sin A = 0.9877$
 81°

27) $\cos X = 0.9744$
 13°

28) $\cos C = 0.8988$
 26°

29) $\sin A = 0.9397$
 70°

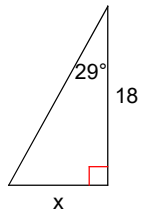
30) $\tan B = 11.4301$
 85°

31) $\tan C = 0.2867$ 16°

32) $\sin A = 0.9925$ 83°

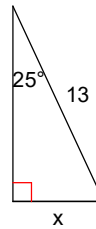
For each triangle, find the length of side x . Round your answers to the nearest tenth.

33)



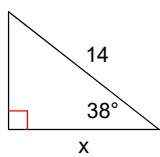
10.0

34)



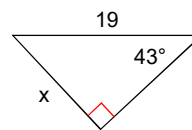
5.5

35)



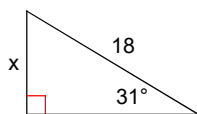
11.0

36)



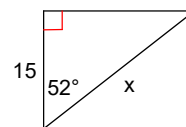
13.0

37)



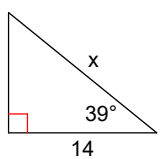
9.3

38)



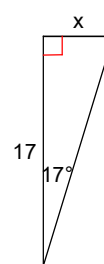
24.4

39)



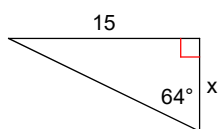
18.0

40)



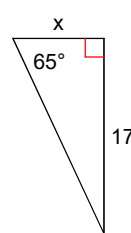
5.2

41)



7.3

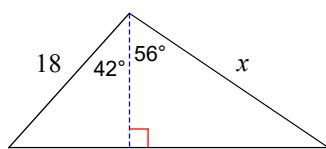
42)



7.9

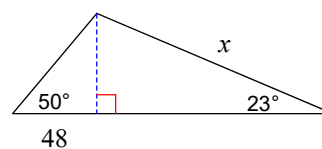
Find the length of the side labeled x . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

43)



24

44)



146.4