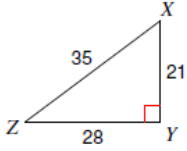


More on Trigonometric Ratios ... Set 1

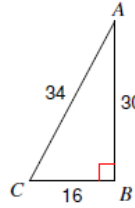
Trigonometric Ratios

Find the value of each trigonometric ratio.

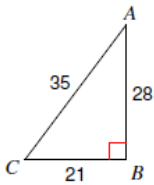
1) $\tan Z$



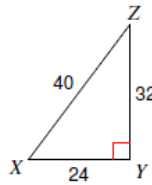
2) $\cos C$



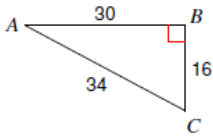
3) $\sin C$



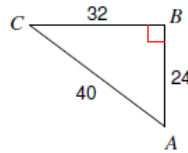
4) $\tan X$



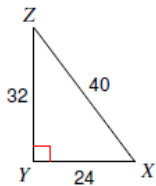
5) $\cos A$



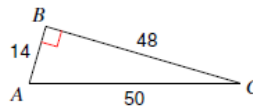
6) $\sin A$



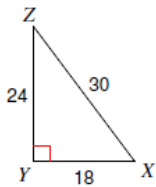
7) $\sin Z$



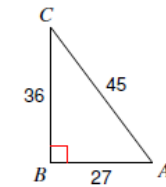
8) $\sin C$



9) $\cos Z$



10) $\tan C$

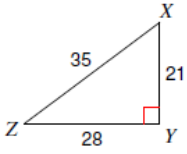


More on Trigonometric Ratios ... Set 1

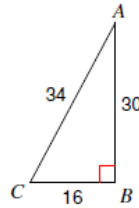
Answers

Find the value of each trigonometric ratio.

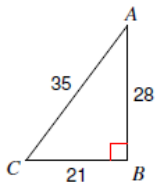
1) $\tan Z = \frac{3}{4}$



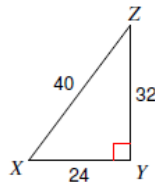
2) $\cos C = \frac{8}{17}$



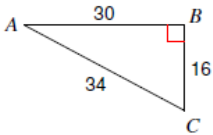
3) $\sin C = \frac{4}{5}$



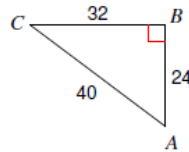
4) $\tan X = \frac{4}{3}$



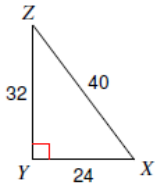
5) $\cos A = \frac{15}{17}$



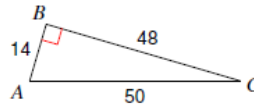
6) $\sin A = \frac{4}{5}$



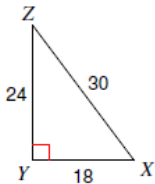
7) $\sin Z = \frac{3}{5}$



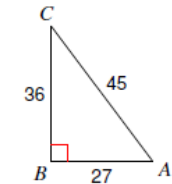
8) $\sin C = \frac{7}{25}$



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



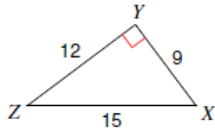
10) $\tan C = \frac{3}{4}$



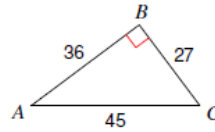
More on Trigonometric Ratios ... Set 1

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

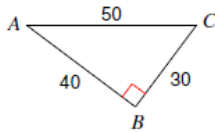
11) $\cos Z$



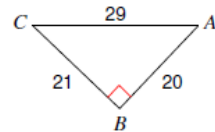
12) $\cos C$



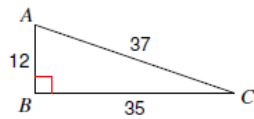
13) $\tan C$



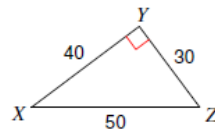
14) $\tan A$



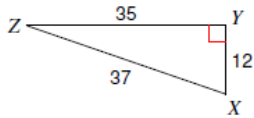
15) $\tan C$



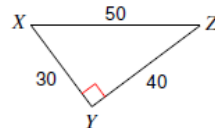
16) $\tan X$



17) $\sin Z$



18) $\sin Z$



19) $\sin 48^\circ$

20) $\sin 38^\circ$

21) $\cos 61^\circ$

22) $\cos 51^\circ$

Critical thinking questions:

23) Can the sine of an angle ever equal 2?
Why or why not?

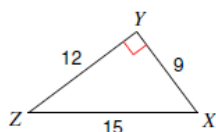
24) $\sin x = \frac{1}{3}$
Find $\cos x$.

More on Trigonometric Ratios ... Set 1

Answers

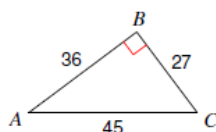
Find the value of each trigonometric ratio to the nearest ten-thousandth.

11) $\cos Z$



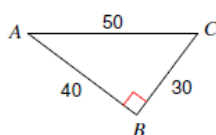
0.8000

12) $\cos C$



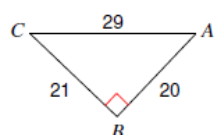
0.6000

13) $\tan C$



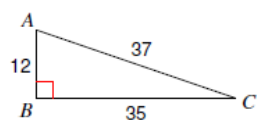
1.3333

14) $\tan A$



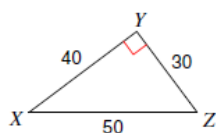
1.0500

15) $\tan C$



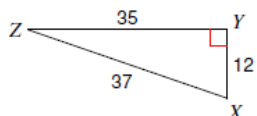
0.3429

16) $\tan X$



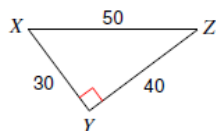
0.7500

17) $\sin Z$



0.3243

18) $\sin Z$



0.6000

19) $\sin 48^\circ$

0.7431

20) $\sin 38^\circ$

0.6157

21) $\cos 61^\circ$

0.4848

22) $\cos 51^\circ$

0.6293

Critical thinking questions:

23) Can the sine of an angle ever equal 2?
Why or why not?

No, the hypotenuse > opposite side.

24) $\sin x = \frac{1}{3}$

Find $\cos x$.

$\frac{2\sqrt{2}}{3}$