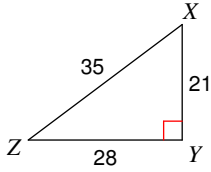


Trigonometric Ratios

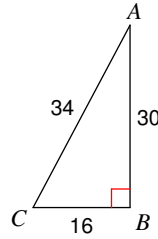
Date _____ Period _____

Find the value of each trigonometric ratio.

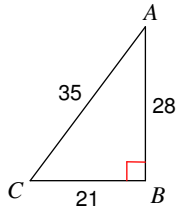
1) $\tan Z$



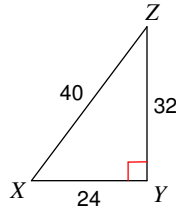
2) $\cos C$



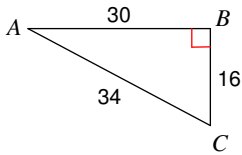
3) $\sin C$



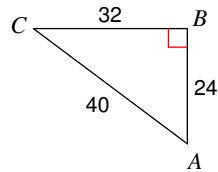
4) $\tan X$



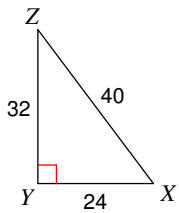
5) $\cos A$



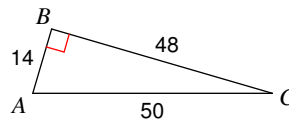
6) $\sin A$



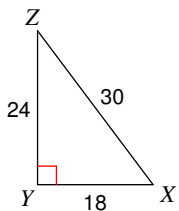
7) $\sin Z$



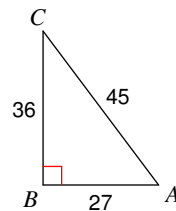
8) $\sin C$



9) $\cos Z$

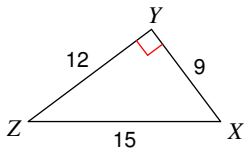


10) $\tan C$

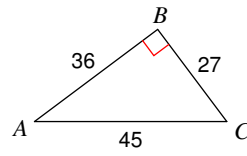


Find the value of each trigonometric ratio to the nearest ten-thousandth.

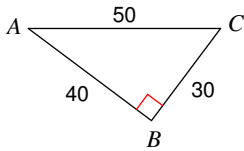
11) $\cos Z$



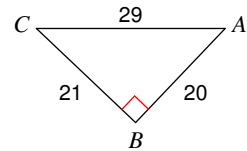
12) $\cos C$



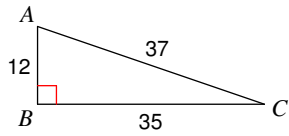
13) $\tan C$



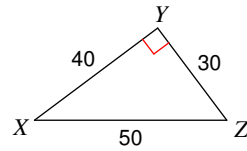
14) $\tan A$



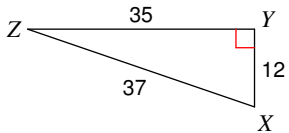
15) $\tan C$



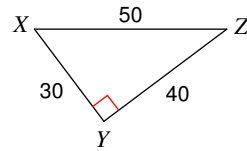
16) $\tan X$



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?

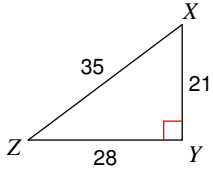
24) $\sin x = \frac{1}{3}$
Find $\cos x$.

Trigonometric Ratios

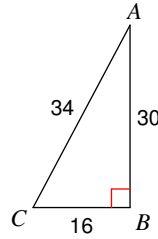
Date _____ Period _____

Find the value of each trigonometric ratio.

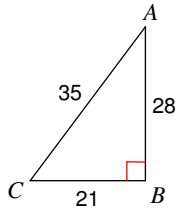
1) $\tan Z$ $\frac{3}{4}$



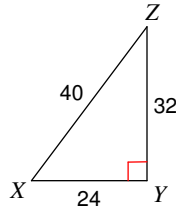
2) $\cos C$ $\frac{8}{17}$



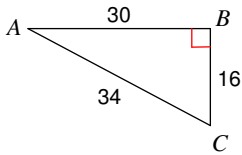
3) $\sin C$ $\frac{4}{5}$



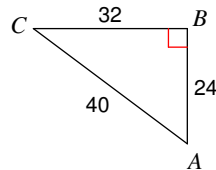
4) $\tan X$ $\frac{4}{3}$



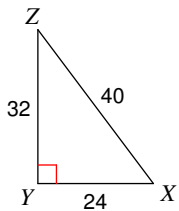
5) $\cos A$ $\frac{15}{17}$



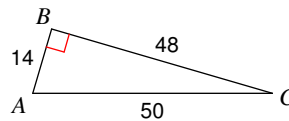
6) $\sin A$ $\frac{4}{5}$



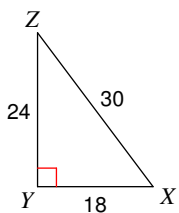
7) $\sin Z$ $\frac{3}{5}$



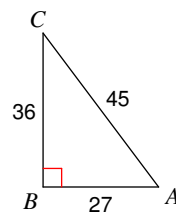
8) $\sin C$ $\frac{7}{25}$



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

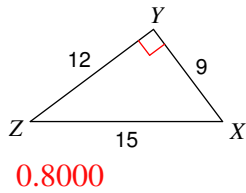


10) $\tan C$ $\frac{3}{4}$

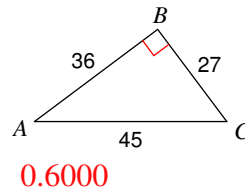


Find the value of each trigonometric ratio to the nearest ten-thousandth.

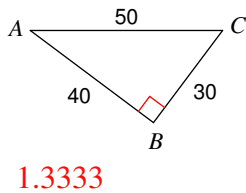
11) $\cos Z$



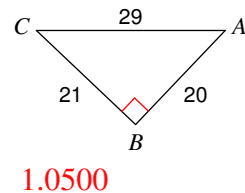
12) $\cos C$



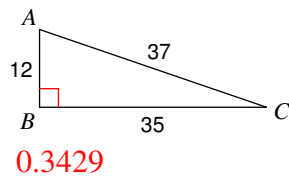
13) $\tan C$



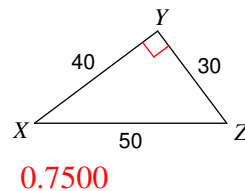
14) $\tan A$



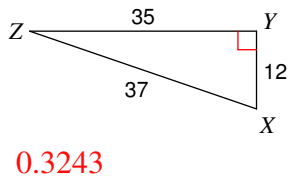
15) $\tan C$



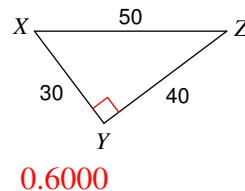
16) $\tan X$



17) $\sin Z$



18) $\sin Z$



19) $\sin 48^\circ$

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) $\sin x = \frac{1}{3} \frac{2\sqrt{2}}{3}$

Find $\cos x$.