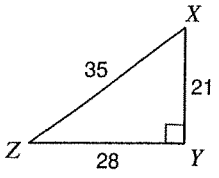
Trigonometric Ratios

- Homework -

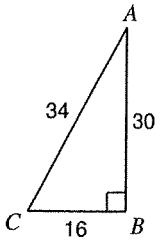
Date_____ Period____

Find the value of each trigonometric ratio.

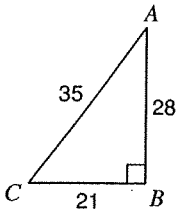
1) tan Z



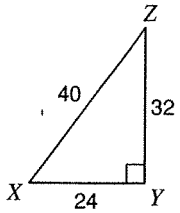
2) cos C



3) sin C

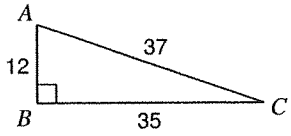


4) tan X

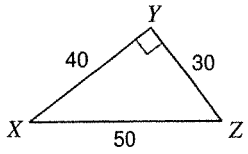


Find the value of each trigonometric ratio to the nearest ten-thousandth.

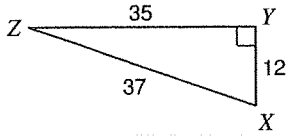
5) tan C



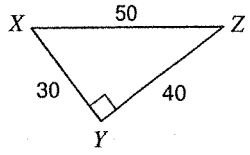
6) tan X



7) sin Z



8) sin Z



9) sin 48°

10) sin 38°

11) cos 61°

12) cos 51°

Critical thinking questions:

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

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

Find cos x.

15) **Error Analysis**

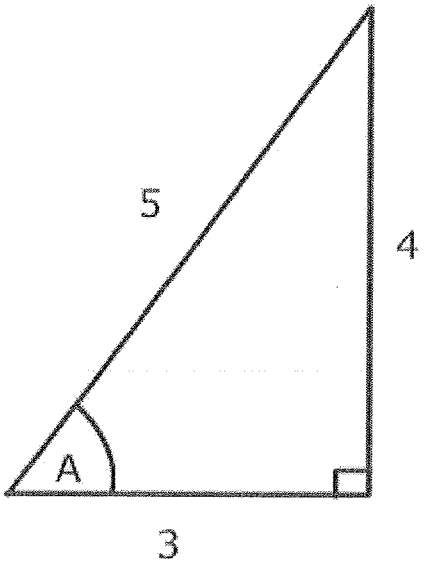
A teacher asks the class if they can express the sin(A) in Triangle 1 and the sin(b) in triangle 2.

Jose says $\sin(A) = \frac{4}{5}$ and sin(b) does not exist.

Jenny says $\sin(A) = \frac{4}{5}$ and $\sin(B) = \frac{2}{4.6}$

Who is correct? (explain your reasoning)

Triangle 1



Triangle 2