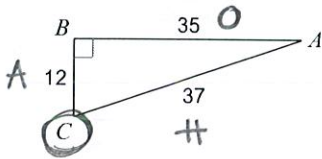


Trig Quiz Review

Find the value of each trigonometric ratio.

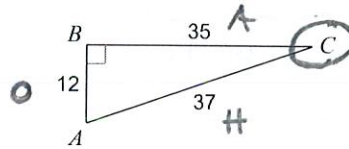
1)  $\sin C$



$$\sin C = \frac{O}{H}$$

$$\sin C = \frac{35}{37}$$

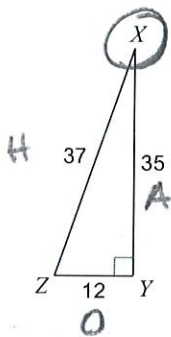
2)  $\cos C$



$$\cos C = \frac{A}{H}$$

$$\cos C = \frac{35}{37}$$

3)  $\tan X$

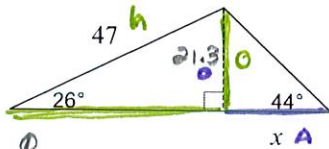


$$\tan X = \frac{O}{A}$$

$$\tan X = \frac{12}{35}$$

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.

4)



$$\tan 44 = \frac{20.6}{A}$$

$$x = \frac{20.6}{\tan 44}$$

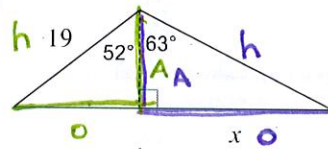
$$x = 21.3$$

$$\sin 26 = \frac{O}{47}$$

$$47 \sin 26 = O$$

$$20.6 = O$$

5)



$$\tan 63 = \frac{x}{11.7}$$

$$11.7 \tan 63 = x$$

$$23 = x$$

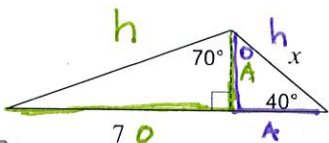
$$22.96 \leftarrow$$

$$\cos 52 = \frac{A}{19}$$

$$19 \cos 52 = A$$

$$11.7 = A$$

6)



$$\sin 40 = \frac{2.5}{h}$$

$$h = \frac{2.5}{\sin 40}$$

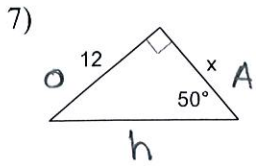
$$h = 3.9$$

$$\tan 70 = \frac{7}{A}$$

$$A = \frac{7}{\tan 70}$$

$$A = 2.5$$

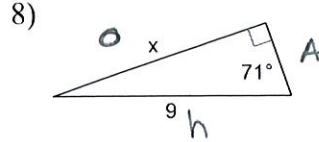
Find the missing side. Round to the nearest tenth.



$$\tan 50 = \frac{12}{x}$$

$$x = \frac{12}{\tan 50}$$

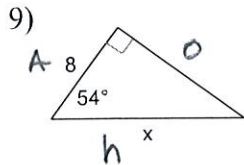
$$x = 10.1$$



$$\sin 71 = \frac{x}{9}$$

$$9 \sin 71 = x$$

$$8.5 = x$$

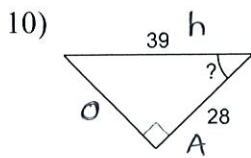


$$\cos 54 = \frac{8}{x}$$

$$x = \frac{8}{\cos 54}$$

$$x = 13.6$$

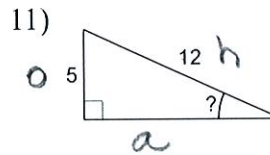
Find the measure of the indicated angle to the nearest degree.



$$\cos \theta = \frac{28}{39}$$

$$\theta = \cos^{-1}\left(\frac{28}{39}\right)$$

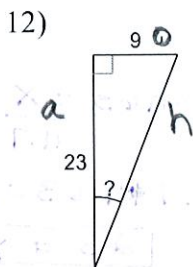
$$\theta = 44^\circ$$



$$\sin \theta = \frac{5}{12}$$

$$\sin^{-1}\left(\frac{5}{12}\right) = \theta$$

$$25^\circ = \theta$$



$$\tan \theta = \frac{9}{23}$$

$$\tan^{-1}\left(\frac{9}{23}\right) = \theta$$

$$21^\circ = \theta$$

Co functions: Provide the equivalent trig functions.

13)  $\sin(42) = \cos(\underline{48})$

14)  $\cos(18) = \sin(\underline{72})$