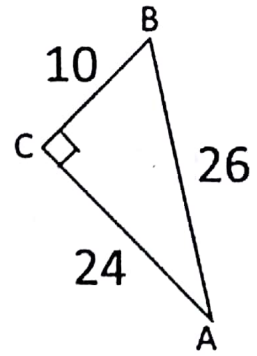


Given triangle ABC, find the following six trig ratios, simplest form required.



- 1) $\sin A =$ _____ 4) $\sin B =$ _____
 2) $\cos A =$ _____ 5) $\cos B =$ _____
 3) $\tan A =$ _____ 6) $\tan B =$ _____

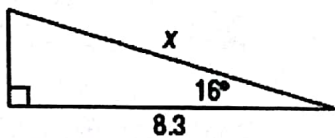
Round all remaining questions to two decimals. Use for questions 7 – 10.

In $\triangle ABC$, $m \angle ACB = 90^\circ$ and $\sin(B) = \frac{39}{89}$

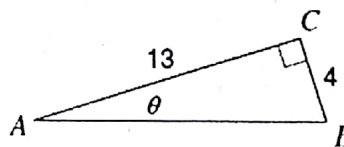
- 7) Draw triangle ABC 8) What is the length of BC?

- 9) What is $\cos A$? 10) What is $\tan A$?

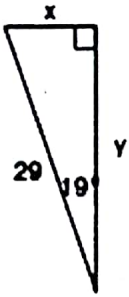
11) Solve for x.



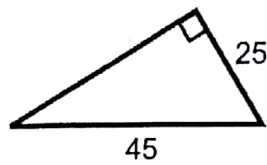
12) Solve for θ .



13) Solve for x and y.



14) Solve for all missing sides and all missing angles in the triangle below round to the nearest tenth.



15) Evaluate $\tan^{-1}(\sqrt{4096})$

16) Draw a triangle which is described by the following:

$$\cos \theta = \frac{4}{5}$$

Correctly place θ , 4, 5 in your triangle sketch.