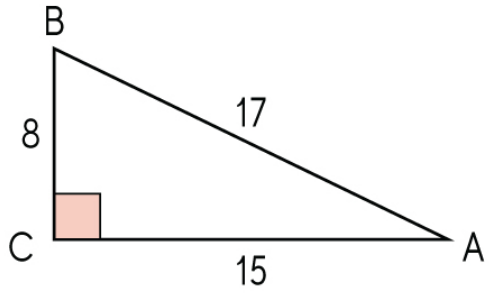
Name : _____

MATH MONKS

Trigonometric Ratio Recap

1 Find the following ratios for the given right triangle



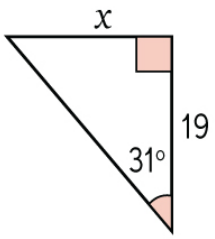
sin A = ☐ sin B = ☐

cos A = ☐ cos B = ☐

tan A = ☐ tan B = ☐

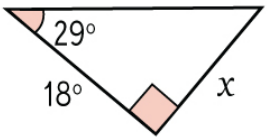
2 Use trigonometric ratios to find the missing sides in the following right triangles

a



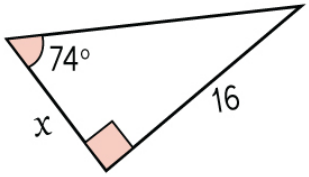
x = _____

b



x = _____

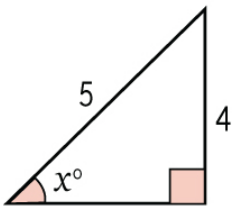
c



_____

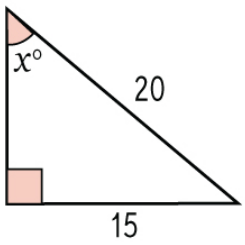
3 Use the inverse trigonometric ratios to solve for the unknown angle in the following right triangles

a



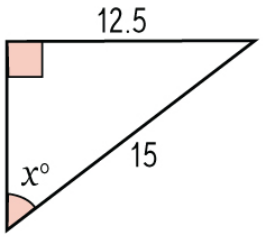
x = _____

b



x = _____

c



x = _____

4 Use calculator and inverse trigonometric functions to find the angle to the nearest tenth

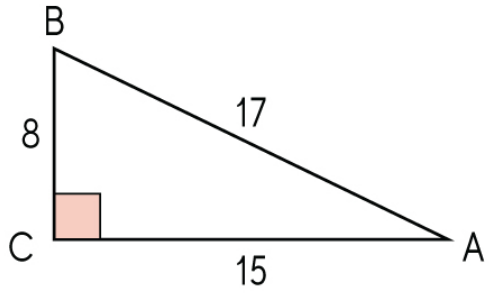
a $\tan^{-1}(2)$ b $\sin^{-1}\left(\frac{3}{4}\right)$ c $\tan^{-1}\left(\frac{7}{8}\right)$

_____ _____ _____

Name : _____

Trigonometric Ratio Recap

1 Answers

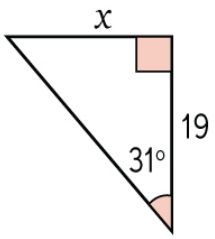


$\sin A = \frac{8}{17}$ $\sin B = \frac{15}{17}$

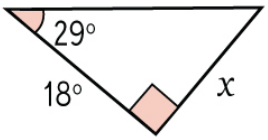
$\cos A = \frac{15}{17}$ $\cos B = \frac{8}{17}$

$\tan A = \frac{8}{15}$ $\tan B = \frac{15}{8}$

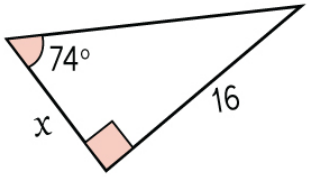
2

a 

$x =$ 11.4

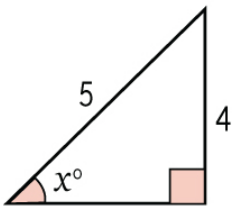
b 

$x =$ 10.0

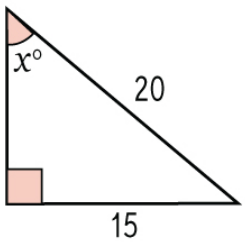
c 

4.6

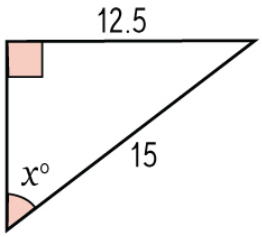
3

a 

$x =$ 53.1°

b 

$x =$ 48.59°

c 

$x =$ 56.44°

4

a $\tan^{-1}(2)$

63.4°

b $\sin^{-1}\left(\frac{3}{4}\right)$

48.6°

c $\tan^{-1}\left(\frac{7}{8}\right)$

41.2°