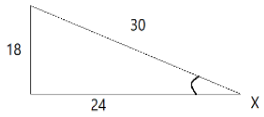
Name:

Date:

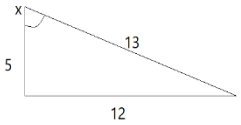
Missing sides and Angles of a Right triangle

Find the value of each trigonometric ratio as fractions in their simplest form.

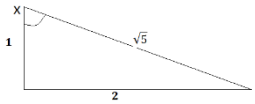
1) $\sin x$, $\cos x$, $\tan x$, $\cot x$



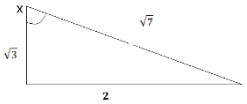
2) $\sin x$, $\cos x$, $\tan x$, $\cot x$



3) $\sin x$, $\cos x$, $\tan x$, $\cot x$

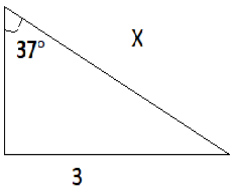


4) $\sin x$, $\cos x$, $\tan x$, $\cot x$

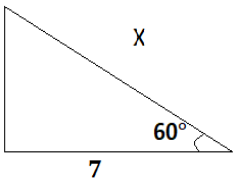


Find the missing side. Round answers to the nearest tenth.

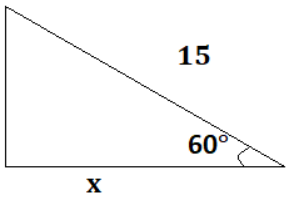
5)



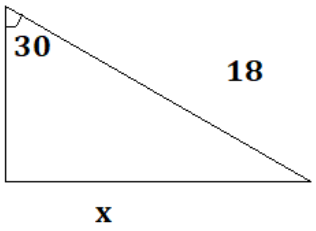
6)



7)



8)



Name:

Date:

Missing sides and Angles of a Right triangle

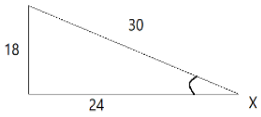
Answers

Find the value of each trigonometric ratio as fractions.

1) $\sin x, \cos x, \tan x, \cot x$

$\sin x = \frac{3}{5}, \cos x = \frac{4}{5}$

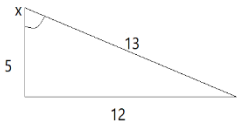
$\tan x = \frac{3}{4}, \cot x = \frac{4}{3}$



2) $\sin x, \cos x, \tan x, \cot x$

$\sin x = \frac{12}{13}, \cos x = \frac{5}{13}$

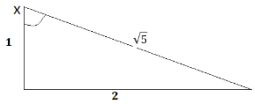
$\tan x = \frac{12}{5}, \cot x = \frac{5}{12}$



3) $\sin x, \cos x, \tan x, \cot x$

$\sin x = \frac{2\sqrt{5}}{5}, \cos x = \frac{\sqrt{5}}{5}$

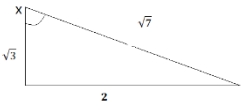
$\tan x = \frac{2}{1}, \cot x = \frac{1}{2}$



4) $\sin x, \cos x, \tan x, \cot x$

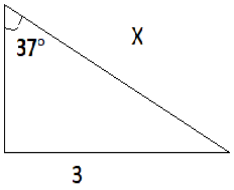
$\sin x = \frac{2\sqrt{7}}{7}, \cos x = \frac{\sqrt{3}}{\sqrt{7}}$

$\tan x = \frac{2}{\sqrt{3}}, \cot x = \frac{\sqrt{3}}{2}$

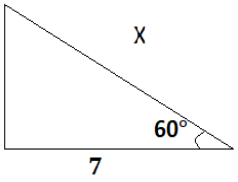


Find the missing side. Round answers to the nearest tenth.

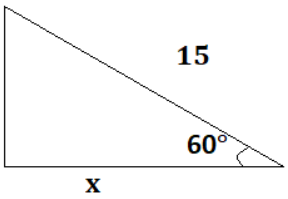
5) $x = 5$



6) $x = 14$



7) $x = 7.5$



8) $x = 9$

