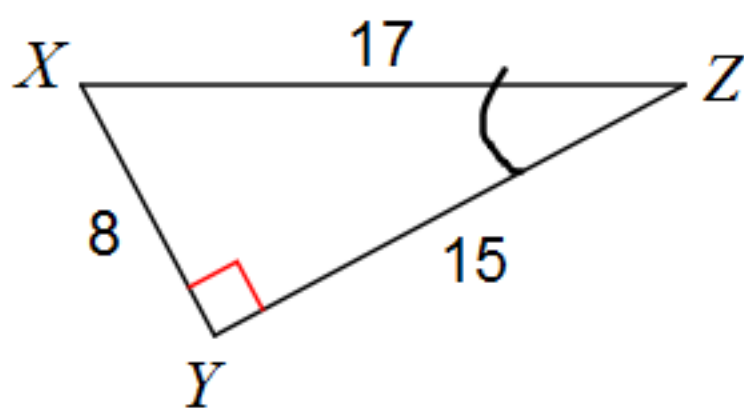


Find the value of each trigonometric ratio to the nearest ten-thousandth.

1) $\cos Z$



SOHCAHTOA

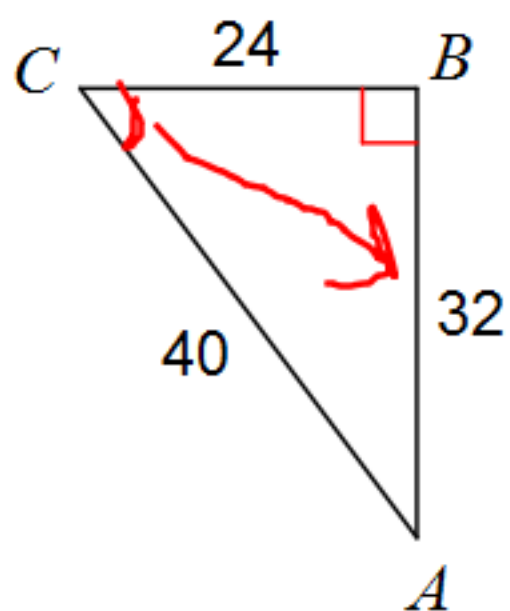
$$\cos Z = \frac{\text{adj}}{\text{hyp}}$$

$$\cos Z = \frac{15}{17}$$

$$\cos Z = 0.8824$$

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

3) $\tan C$



$$\tan C = \frac{\text{Opp}}{\text{Adj}}$$

$$\tan C = \frac{32}{4}$$

$$\tan C = 1.3333$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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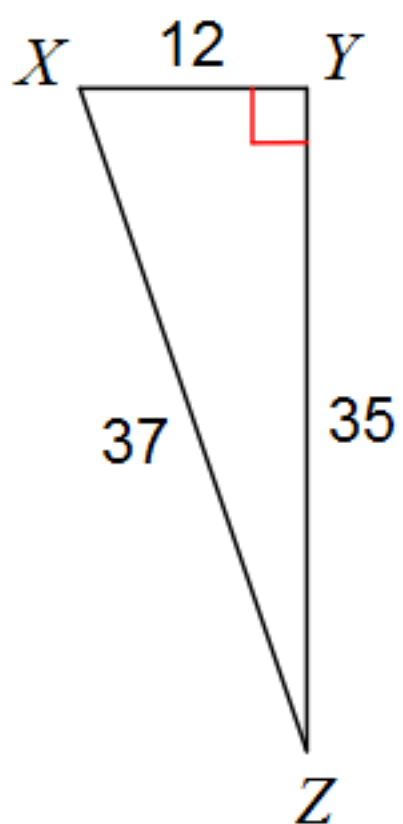
Jump



1-up

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

4) $\tan X$



$$\tan X = \frac{\text{Opp}}{\text{Adj}}$$

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

$$\tan X = 2.9167$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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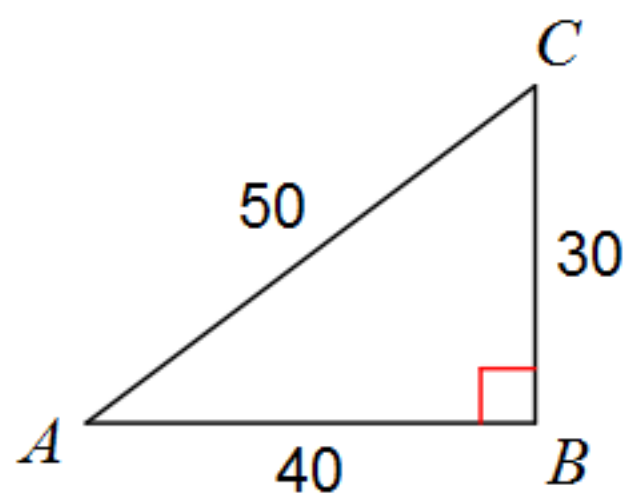
Jump



1-up

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

5) $\cos C$



$$\cos C = \frac{\text{Adj}}{\text{Hyp}}$$

$$\cos C = \frac{40}{50}$$

$$\cos C = 0.8000$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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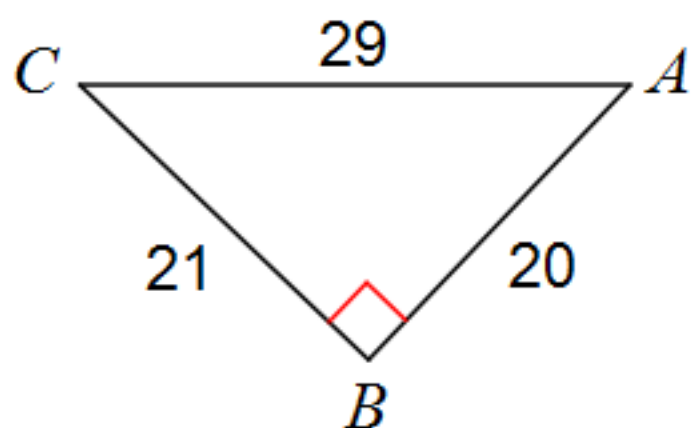
Jump



1-up

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

6) $\sin A$



$$\sin A = \frac{21}{29}$$

$$\sin A = \frac{21}{29}$$

$$\sin A = 0.7241$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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1-up

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

7) $\tan 61^\circ = 1.8040$

Filter Index Order

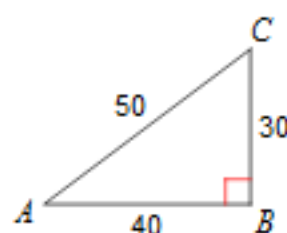
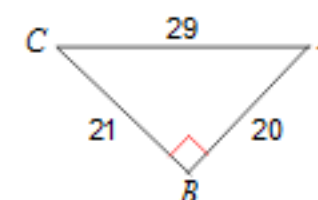
Absolute value
 Equations, graphing
 Equations, solving
 Inequalities
 Combining like terms
Completing the square
 By finding the constant
 Solving equations by
 Discriminant
 Distance Formula
 Distributive property
Dividing
 Polynomials
 Radical expressions
 Rational expressions
 Rational numbers
 Scientific notation
Equations
 Absolute Value
 Multi-step
 One-step
 Proportions
 Quadratic, solving by completing the square
 Quadratic, solving by factoring
 Quadratic, solving by taking square roots

1.87 pages

22 questions

Current question sets (4):

6 × Finding Trig. Ratios Given Diagrams
 4 × Finding Trig. Ratios of Angles
 6 × Using Inverse Trig Functions
 6 × Using Trig to Find Angles in Triangles

5) $\cos C$ 7) $\tan 61^\circ$ 9) $\sin 51^\circ$ 6) $\sin A$ 8) $\tan 44^\circ$ 10) $\cos 75^\circ$

-1-

Find each angle measure to the nearest degree.11) $\tan W = 0.9325$ 12) $\sin A = 0.7880$ 13) $\cos B = 0.9848$ 14) $\sin U = 0.9511$ 15) $\cos U = 0.9455$ 16) $\tan U = 2.4751$ **Find the measure of the indicated angle to the nearest degree.**

17)

18)

Filter Index Order

Absolute value

Equations, graphing
Equations, solving
Inequalities

Combining like terms

Completing the square

By finding the constant

Solving equations by

Discriminant

Distance Formula

Distributive property

Dividing

Polynomials

Radical expressions

Rational expressions

Rational numbers

Scientific notation

Equations

Absolute Value

Multi-step

One-step

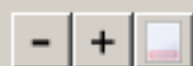
Proportions

Quadratic, solving by completing the square

Quadratic, solving by factoring

Quadratic, solving by taking square roots

1.87 pages



22 questions

Current question sets (4):

6 × Finding Trig. Ratios Given Diagrams

4 × Finding Trig. Ratios of Angles

6 × Using Inverse Trig Functions

6 × Using Trig to Find Angles in Triangles

Find each angle measure to the nearest degree.

11) $\tan W = 0.9325$

$$W = 43^\circ$$

13) $\cos B = 0.9848$

$$B = 10^\circ$$

15) $\cos U = 0.9455$

$$U = 19^\circ$$

12) $\sin A = 0.7880$

$$A = 52^\circ$$

14) $\sin U = 0.9511$

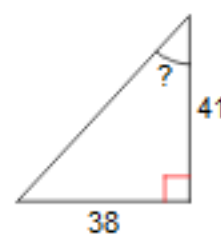
$$U = 72^\circ$$

16) $\tan U = 2.4751$

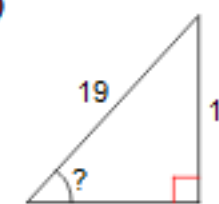
$$U = 68^\circ$$

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

17)



18)



19)



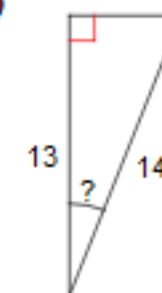
20)



21)

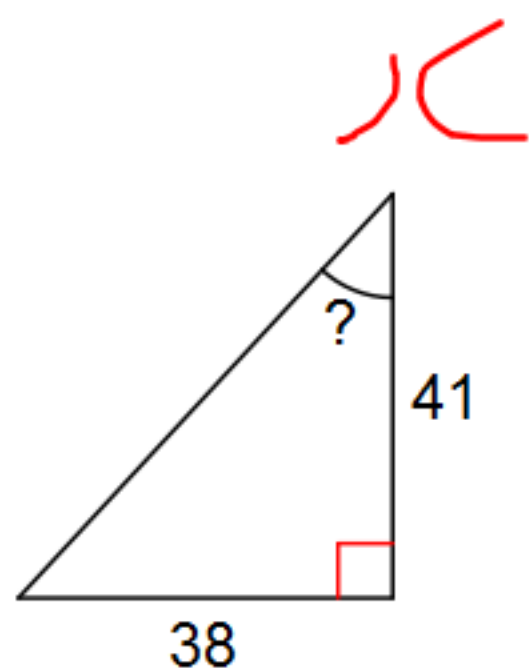


22)



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

17)



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

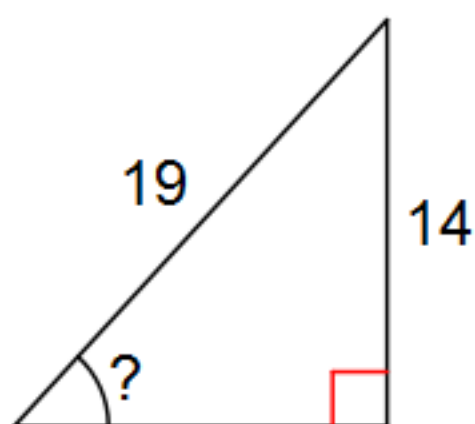
$$\tan x = \frac{38}{41}$$

$$\tan x = 0.9268$$

$$\tan x = 43^\circ$$

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

18)



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

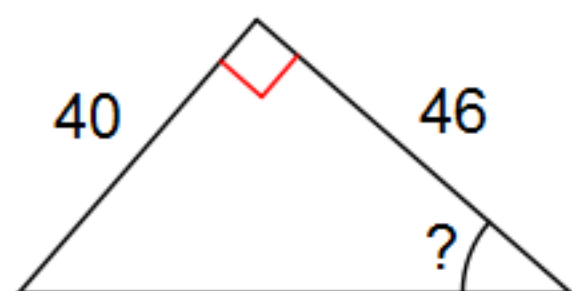
$$\sin x = \frac{14}{19}$$

$$\sin x = 0.7368$$

$$x = 4$$

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

19)



x

$$\tan x = \frac{40}{46}$$

$$\tan x = \frac{40}{46}$$

$$\tan x = 0.8696$$

$$x = 41^\circ$$

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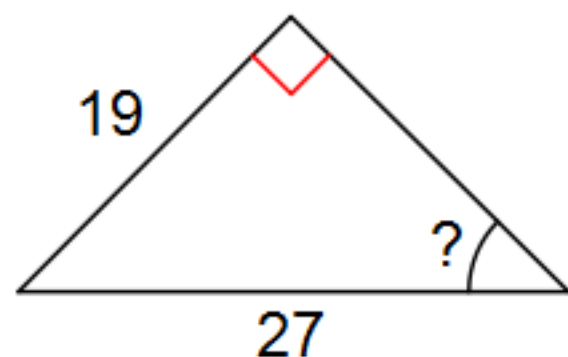
Jump



1-up

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

20)



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

$$\sin X = \frac{19}{27}$$

$$\sin X = 0.7037$$

$$X = 45^\circ$$

☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
☒ Lines Zoom:

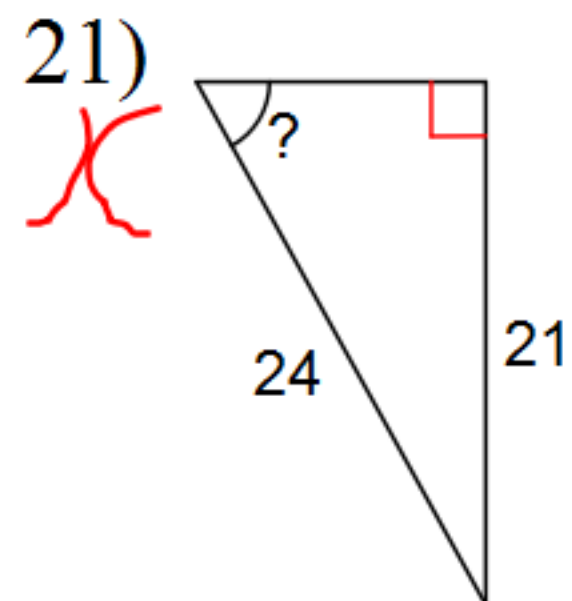
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Jump



1-up

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



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

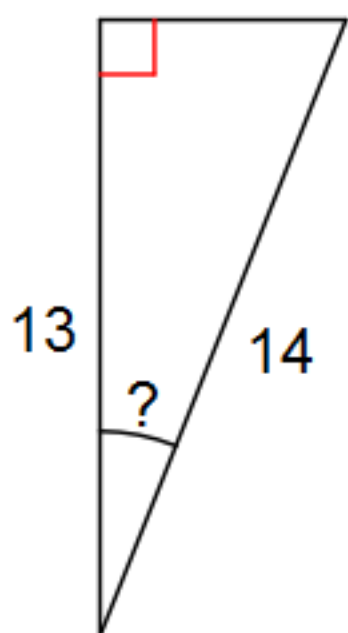
$$\sin X = \frac{21}{24}$$

$$\sin X = 0.8750$$

$$X = 61^\circ$$

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

22)



$$\cos x = \frac{\text{Adj}}{\text{hyp}}$$

$$\cos x = \frac{13}{14}$$

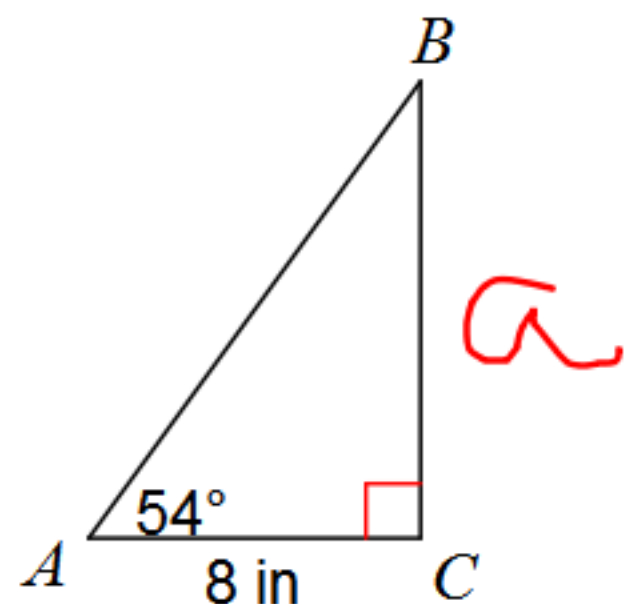
$$\cos x = 0.9286$$

$$x = 21.7^\circ$$

$$x = 22^\circ$$

Solve each triangle. Round answers to the nearest tenth.

1)



$$\angle A = 54^\circ \quad a = 11.0 \text{ in}$$

$$\angle B = 36^\circ \quad b = 8 \text{ in}$$

$$\angle C = 90^\circ \quad c = 13.6 \text{ in}$$

$$\tan A = \frac{a}{b}$$

$$\angle B = 180 - (90 + 54)$$

$$\angle B = 180 - 144$$

$$\angle B = 36^\circ$$

$$\tan 54^\circ = \frac{a}{8}$$

$$\sqrt{185} = \sqrt{c^2}$$

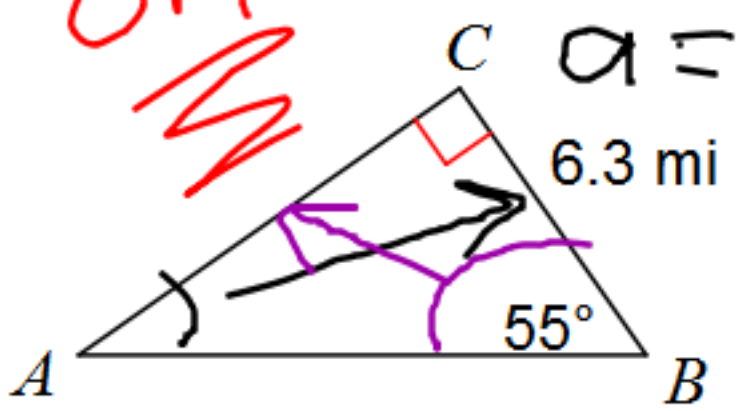
$$c = 13.6$$

$$a = 8 \tan 54^\circ$$

$$a = 11.0$$

$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 11^2 + 8^2 &= c^2 \\
 121 + 64 &= c^2
 \end{aligned}$$

Solve each triangle. Round answers to the nearest tenth.

2) *Test on Wed. Finish for homework!*


$$\begin{aligned} \angle A &= 35^\circ & a &= 6.3 \text{ mi} \\ \angle B &= 55^\circ & b &= 9.0 \text{ mi} \\ \angle C &= 90^\circ & c &= 11 \text{ mi} \end{aligned}$$

$$\angle A = 180 - (90 + 55)$$

$$\angle A = 180 - 145$$

$$\angle A = 35^\circ$$

$$\tan B = \frac{a}{b}$$

$$\tan 55^\circ = \frac{6.3}{b}$$

$$\begin{aligned} a^2 + b^2 &= c^2 \\ (6.3)^2 + (9.0)^2 &= c^2 \\ 39.69 + 81 &= c^2 \end{aligned}$$

$$\begin{aligned} 120.7 &= c^2 \\ c &= 10.98 \\ c &= 11 \end{aligned}$$

$$\begin{aligned} b &= 6.3 \tan 55^\circ \\ b &= 8.997 \\ b &= 9.0 \end{aligned}$$