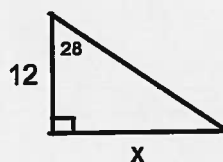


Trigonometry Review

1) Find x



$$\text{Tan} = \frac{\text{opp}}{\text{adj}}$$

$$\text{Tan } 28 = \frac{x}{12}$$

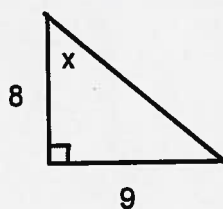
$$\frac{\text{Tan } 28}{1} = \frac{x}{12}$$

$$1x = \text{Tan } 28(12)$$

$$x = 6.38$$

Feb 26-8:01 PM

2) Find the measure of x.



$$\text{Tan} = \frac{\text{opp}}{\text{adj}}$$

$$\text{Tan} = \frac{9}{8}$$

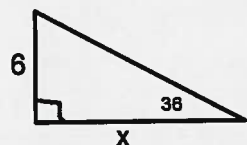
$$\text{Tan} = 1.125$$

$$\text{Tan}^{-1} = 48.37^{\circ}$$

$$x = 48.37^{\circ}$$

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3) Find x



$$\text{Tan} = \frac{\text{opp}}{\text{adj}}$$

$$\text{Tan } 36 = \frac{6}{x}$$

$$\frac{\text{Tan } 36}{1} = \frac{6}{x}$$

$$\text{Tan } 36 \cdot x = 6 \times 1$$

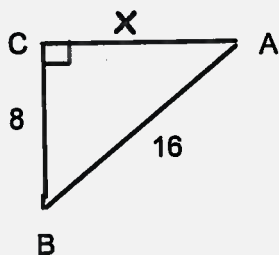
$$\frac{\text{Tan } 36 \cdot x}{\text{Tan } 36} = \frac{6 \times 1}{\text{Tan } 36}$$

$$x = \frac{6}{\text{Tan } 36}$$

$$x = 8.26$$

Feb 26-8:02 PM

4) Find x.



$$c^2 - a^2 = b^2$$

$$16^2 - 8^2 = b^2$$

$$256 - 64 = b^2$$

$$192 = b^2$$

$$\sqrt{192} = \sqrt{b^2}$$

$$13.86 = b$$

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- 5) A ladder leans against a wall. The base of the ladder is 4m from the wall. The top of the ladder makes an angle with the wall of 22 degrees.

Draw a diagram and then find how far up the wall the ladder reaches.



$$\tan 22 = \frac{4}{x}$$

$$\frac{\tan 22}{1} = \frac{4}{x}$$

$$\tan 22 \cdot x = 1 \cdot 4$$

$$\frac{\tan 22 \cdot x}{\tan 22} = \frac{4}{\tan 22}$$

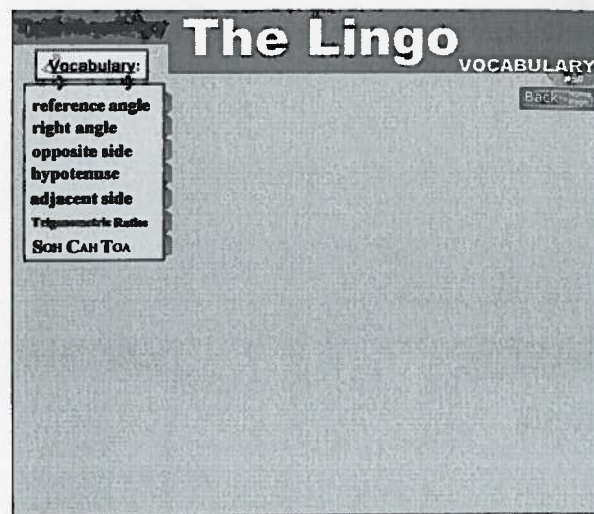
$$x = \frac{4}{\tan 22}$$

$$x = 9.9\text{m}$$

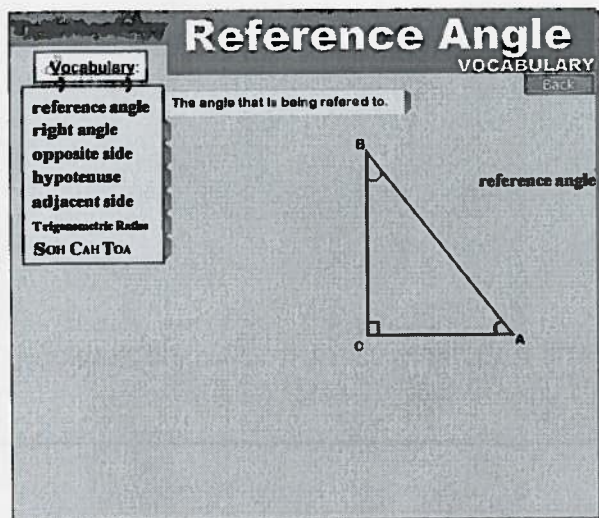
Feb 26-8:02 PM



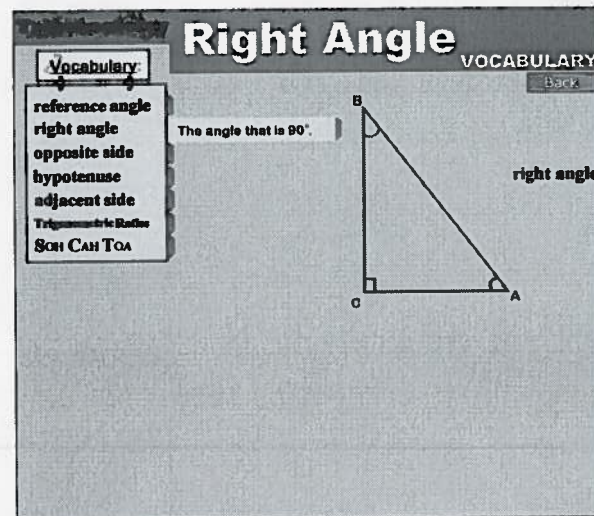
Intro



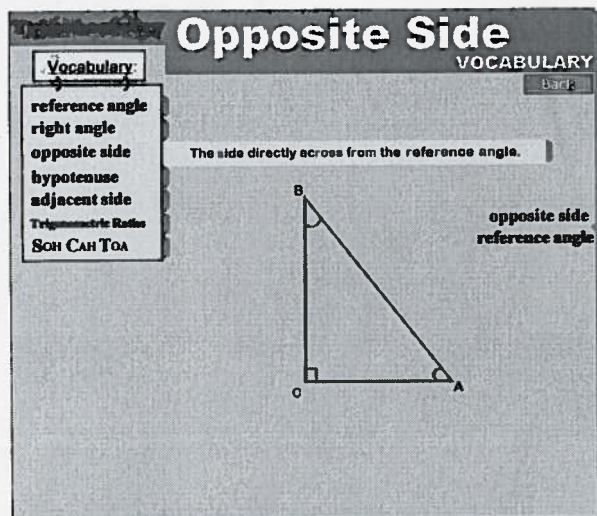
Vocabulary



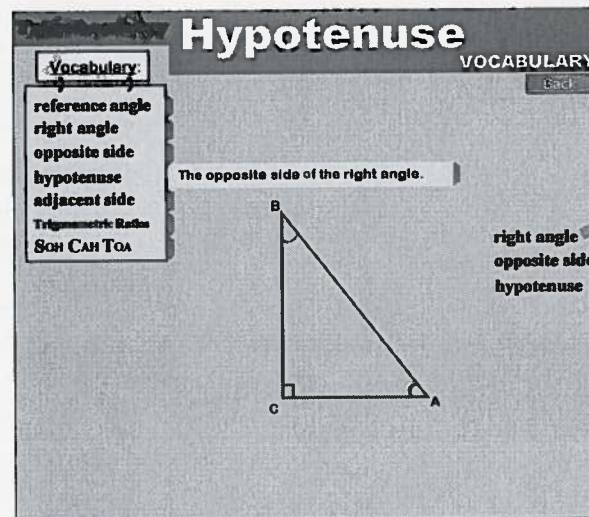
Reference Angle



Right Angle



Opposite Side



Hypotenuse

Adjacent Side

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

The side beside the reference angle that is not the hypotenuse.

reference angle
hypotenuse
adjacent side

VOCABULARY

Back

Adjacent Side

Practice

(Example 1)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

reference angle

hypotenuse
opposite side
adjacent side

VOCABULARY

Back

Practice 1

Practice

(Example 2)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

hypotenuse
opposite side
adjacent side

reference angle

VOCABULARY

Back

Practice 2

Practice

(Example 3)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

reference angle

hypotenuse
opposite side
adjacent side

VOCABULARY

Back

Practice 3

Practice

(Example 4)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

hypotenuse
opposite side
adjacent side

reference angle

VOCABULARY

Back

Practice 4

Practice

(Example 5)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

hypotenuse
opposite side
adjacent side

reference angle

VOCABULARY

Back

Practice 5

Practice

(Example 6)

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Place the vocabulary words on the appropriate side of the triangle.

hypotenuse
opposite side
adjacent side

reference angle

Practice 6

Trig. Ratios

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

The ratios that relate the angles and sides of a 90° triangle

Sine Ratio
Cosine Ratio
Tangent Ratio

Trig. Ratios

SOH CAH TOA

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

The memory aid for the Trigonometric Ratios.

Soh Cah Toa

Finding Side Lengths

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Determine which Trigonometric Ratio you would use to find the missing side length.

Sine Ratio
Cosine Ratio
Tangent Ratio

EXAMPLE 1 (click here)

App: Finding Sides

Practice

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Use the Trigonometric Ratios to determine the missing side length.

App: Examples

Finding Angles

Vocabulary:

- reference angle
- right angle
- opposite side
- hypotenuse
- adjacent side
- Trigonometric Ratios
- SOH CAH TOA

Determine which Trigonometric Ratio you would use to find the missing angle.

Sine Ratio
Cosine Ratio
Tangent Ratio

EXAMPLE 1 (click here)

App: Finding Angles