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Problems Master
Solving word problems
using right triangle
trigonometry

Angle of Elevation and
Depression Word
Problems

Trigonometry, Finding
Sides, Angles, Right
Triangles Trigonometry
Word Problem, Finding
The Height of a
Building, Example 1

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Trigonometry word problems (part 1) Angle of Elevation / Angle of Depression Problems Applications of Trigonometric Functions (Word Problems Involving Tangent, Sine and Cosine) Word Problems using trigonometry and bearings Word Problems using trigonometry and

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~~bearings Writing
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Word Problems
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~~Geometry Help~~

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Problem, Determining
the Speed of a Boat,
Example 3 Applications
of Trigonometric Ratios
(Word Problems
Involving Tangent, Sine
and Cosine)

Solve Right Triangles 4

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word problem

~~Trigonometry Word
Problem, Example 2~~

~~Trigonometric Word
Problems Lesson~~

~~Trigonometry Word
Problems And Solutions~~

Solution : Now we need
to find the height of the
side AB. $\sin =$

Opposite

side / Hypotenuse side.

$\sin = AB / AC.$ \sin

$60^\circ = AB / 100.$ $3/2$

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$\Rightarrow AB/100. (3/2) \times$
 $100 = AB. AB = 50 \quad 3$
m. So, the height of kite
from the ground $50 \quad 3$
m.

~~Trigonometry Word
Problems Worksheet
with Answers~~

Hints on solving word
problems or applications
of trigonometry: If no
diagram is given, draw
one yourself. Mark the

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right angles in the diagram. Show the sizes of the other angles and the lengths of any lines that are known. Mark the angles or sides you have to calculate.

~~Trigonometry Word Problems (solutions, examples, videos)~~

In the given problem, we have to find the length of hypotenuse side and

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we know the length of
opposite side. $AC =$
Hypotenuse side. $AB =$
Opposite side. $BC =$
Adjacent side. $\sin =$
opposite
side/hypotenuse side.
 $\sin 30^\circ = AB/AC. 1/2$
 $= 0.9/AC. AC = 0.9 \times$
 $2. AC = 1.8 \text{ m.}$

~~Examples of Solving
trigonometry Word
Problems~~

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• In both triangles, the solution deals with "opposite" and "adjacent" making it a tangent problem. •

Larger triangle with height b: • Smaller triangle with height a:

• Difference (b - a):

73.00166791 -

40.56876626 =

32.43290165 32 feet

~~Trigonometry~~ Word

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~~Trigonometry
MathBitsNotebook(Geo
CCSS ...~~

The Corbettmaths
Practice Questions on
Trigonometry. Videos,
worksheets, 5-a-day and
much more

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Questions—
Corbettmaths~~
How to solve word
problems using

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Trigonometry: sine, cosine, tangent, angle of elevation, with examples and step by step solutions, calculate the height of a building, balloon, length of ramp, altitude, angle of elevation, questions and answers

~~Trigonometric Problems
(solutions, examples,
games, videos)~~

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Trigonometry Word Problems. Contextual use of triangle properties, ratios, theorems, and laws. % Progress . MEMORY METER. This indicates how strong in your memory this concept is. Practice. Preview; Assign Practice; Preview. Progress % Practice Now. Trigonometry Non-

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Right Triangle Trig.....
Assign to Class.

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Problems (Read) |
Trigonometry | CK-12~~

...

A and B are the
positions of two runners
after 30 min or 0.5hour
running @ 10km/h
towards north and
@12km/h towards east
respectively. So OA =

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$10 \times 0.5 = 5\text{km}$ and $OB = 12 \times 0.5 = 6\text{km}$. By Pythagorean theorem. The distance of runner B from A. $AB = \sqrt{OA^2 + OB^2} = \sqrt{5^2 + 6^2} = 61\text{km}$.

~~How to Solve These Basic Trigonometry Questions (Bearings ...~~

Trigonometry is a mathematical method used to define relations

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between elements of a triangle. Our maths trigonometry worksheets with answers will help your child or student to grasp and understand basic and more advanced ways of solving trigonometric equations. Our comprehensive resources include Pythagoras and trigonometry worksheets

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trigonometry area of
triangle worksheets and
transformations of trig
graphs worksheets – all
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~~morganduke.org~~

Here is a collection of different word problems of trigonometric ratios (SOHCAHTOA). I found it really useful. It can be used as a plenary

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or it can be transformed into an activity. Have a look you might be finding it useful.

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~~SOHCAHTOA~~ Word Problems | Teaching Resources

Trigonometry questions with answers. Questions on Amplitude, Period, range and Phase Shift of Trigonometric Functions with answers.

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Right Triangle
Problems in
Trigonometry. with
answers. Questions on
Angles in Standard
Position.

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Questions with Answers~~
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Problems. Showing top
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problems using right
triangle trig, 4 1 right
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ws, Applications of right
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and tangent practice, A
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300 feet of string which,
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Right triangle trig
missing sides and angles.

~~Trigonometry Word
Problems Teacher
Worksheets~~

Solutions to the Above
Problems. $x = 10 /$
 $\tan(51^\circ) = 8.1$ (2
significant digits) $H = 10$
 $/ \sin(51^\circ) = 13$ (2
significant digits) Area =
 $(1/2)(2x)(x) = 400$ Solve
for x : $x = 20$, $2x = 40$

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Pythagora's theorem:

$$(2x)^2 + (x)^2 = H^2 \quad H = x(5) = 20 \quad (5) \quad BH$$

perpendicular to AC

means that triangles

ABH and HBC are

right triangles. Hence

~~Trigonometry Problems~~

~~and Questions with~~

~~Solutions Grade 10~~

Solve word problems by

modeling real-world

(and not-so-real)

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situations as right triangles and using trigonometry. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked.

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~~Right triangle
trigonometry word
problems (practice ...~~

A worksheet designed to be printed back to back and folded to make an A5 booklet. Trig Ratios to find missing lengths and angles together with questions on elevation / depression as well as bearings make for a good challenge.

Answers are also

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provided on the worksheet so students are able to check their work and self assess.

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worksheet | Teaching
Resources~~

As long as you know the definitions of the trigonometric elements and know the equations, you should have no problem solving your

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need to verify equations
and the steps ...

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Solve Them | Udemy
Blog~~

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Problems with Solutions
Problem 1 : The angle
of elevation of the top of
the building at a
distance of. Tutor Pace

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