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problems using right
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Problems Angle of

Elevation and

Depression Word

Problems

Trigonometry, Finding

Sides, Angles, Right

Triangles

Trigonometry Word

Problem, Finding The

Height of a Building,

Example 1 **Word**

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Problems using
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bearings Applications
of Trigonometric
Functions (Word
Problems Involving
Tangent, Sine and
Cosine)

**Trigonometry word
problems (part 1)**

*2.16 MINI-LESSON -
Page 5/36*

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Trigonometry Word Problems

Angle of
Elevation/Angle of
Depression Problems

5 3 Trig Function

*Word Problems How
to Solve Right*

Triangle Trig

Functions Word

Problems Trick for
doing trigonometry
mentally!

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confusing problems**

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from Graphs Writing
an equation of a~~

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Word Problem Ex3

Solving Word

Problems Involving

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Equations, Example 1
Writing Trigonometric
Equations From The
Graph \u0026 Solving
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word problems in

trigonometry.

Pythagorean theorem.

MENSURATION.

Mensuration formulas.

Area and perimeter.

Volume.

GEOMETRY. Types

of angles Types of

triangles. Properties

of triangle. Sum of the

angle in a triangle is

180 degree.

Properties of

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parallelogram.
Construction of
triangles - I

Trigonometry
Word Problems
Solutions

Trigonometry Word
Problems Worksheet
with Answers

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

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Mark the right angles in the diagram. Show the sizes of the other angles and the lengths of any lines that are known

Trigonometry Word Problems (solutions, examples, videos)

EXAMPLES OF
SOLVING
TRIGONOMETRY

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WORD PROBLEMS

Example 1 : A ramp for unloading a moving truck, has an angle of elevation of 30° . If the top of the ramp is 0.9 m above the ground level, then find the length of the ramp.

Examples of Solving
trigonometry Word

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Trigonometry Word Problems Solutions

- 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

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How to solve word
problems using
Trigonometry: sine,
cosine, tangent, angle
of elevation, with
examples and step by
step solutions,
calculate the height of

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a building, balloon,
length of ramp,
altitude, angle of
elevation, questions
and answers

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Practice Questions on
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worksheets, 5-a-day
and much more

Trigonometry
Word Problems

Solutions

Trigonometry Practice

Questions –

Corbettmaths

Question 5 In the

above figure O is the

starting point. A and B

are the positions of

two runners after 30

min or 0.5hour

running @ 10km/h

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towards north and
@12km/h towards
east respectively. So
 $OA = 10 \times 0.5 = 5 \text{ km}$

and

$OB = 12 \times 0.5 = 6 \text{ km}$ By
Pythagorean theorem

The distance of
runner B from A $AB =$
 $\sqrt{OA^2 + OB^2} = \sqrt{5^2 + 6^2} = \sqrt{61} \text{ km}$

Bearing is always
measured in
clockwise direction

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w.r. to north line...

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Solutions

How to Solve These

Basic Trigonometry
Questions (Bearings

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Triangle Problems in
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answers. Questions
on Angles in Standard
Position.

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Questions with
Answers

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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 : $x = 20$,
 $2x = 40$ Pythagora's
theorem: $(2x)^2 + (x)^2$
 $= H^2$ $H = x \sqrt{5} = 20$
 $\sqrt{5}$ BH perpendicular
to AC means that
triangles ABH and

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HBC are right triangles. Hence Solutions

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Problems and
Questions with
Solutions - Grade 10
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Problems. Contextual
use of triangle
properties, ratios,
theorems, and laws.

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Problems (Read) |
Trigonometry | CK-12

...

As long as you know the definitions of the trigonometric elements and know the equations, you should have no problem solving your trigonometry word problems. If you are keen to learn more trigonometry to

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Trigonometry is a
mathematical method
used to define
relations between
elements of a triangle.

Our maths

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With Answers...

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