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Learn trigonometric ratios of general angles and how to solve math problems related to

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trig ratios by the following step-by-step

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Trig Ratios of General

Angles Date _____

Period ____ Use a

calculator to find each.

Round your answers to

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the nearest ten-
thousandth. 1) $\cos 101^\circ$
 -0.1908 2) $\cos 310^\circ$
 0.6428 3) $\sin 105^\circ$
 0.9659 4) $\sin -305^\circ$
 0.8192 5) $\sin -228^\circ$
 0.7431 6) $\sin -120^\circ$
 -0.8660 7) $\cos -70^\circ$
 0.3420 8) $\cos 140^\circ$
 -0.7660

**Trig Ratios of
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Kuta**

Trig Ratios of General
Angles 1) $-\sqrt{3}$ 2) 1 2
3) $\sqrt{2}$ 2 4) -1 14) 5) $\sqrt{3}$

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2 6) 1 2 7) Undefined

8) 0 9) Undefined 10)

$-\sqrt{3}$ 11) -2 12) 1 13) 0

Undefined 15) 0 16) 2

17) $2\sqrt{3}$ 3 18) 1 19) -1

20) Undefined 21) $\sqrt{3}$ 2

22) $-\sqrt{3}$ 3 23) $\sqrt{-2}$ 24)

2 25) 2 26) $\sqrt{3}$ 3 27)

$-\sqrt{2}$ 28) $-\sqrt{3}$ 3

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LESSON 3:

Trigonometric Ratios of
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LESSON
4: Radians Day 1 of

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2LESSON 5: Radians

Day 2 of 2LESSON 6:

The Unit Circle Day 1 of

2 ... This is the

introduction to trig

ratios of angles that

are bigger than is

possible in a right

triangle.

Eleventh grade

Lesson

Trigonometric Ratios

of General Angles

We will take this as a

general definition of

trig functions for any

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angle θ . We first
consider P on the x and
y - axes. $P = (x, y) =$
 $(1, 0)$ $\sin 0 = 0$, $\cos 0$
 $= 1$, $P = (x, y) = (0, 1)$,
is undefined.

**Trigonometric
Functions, Maths
First, Institute of ...**

Figure 1 Positive
angles in various
quadrants. If angle θ is
a quadrantal angle,
then either x or y will
be 0, yielding the
undefined values if the

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denominator is zero. The sign, positive or negative, of the trigonometric functions depends on which quadrant this point A (x, y) is located in. Table 1 summarizes this information.

Functions of General Angles - CliffsNotes

Hypotenuse = $OS = 1$
(radius as positive) We then approximate the trigonometric ratios in the second quadrant.

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The supplement of angle $ROT = 120^\circ$ is angle $ROQ = 180 - 120 = 60^\circ$. We also define the opposite, adjacent side and hypotenuse of angle 120° with reference to angle 60° in the second quadrant (in triangle ROQ).

Understanding Trigonometric Ratios of Angles in Each ...

The six trigonometric ratios of a right angle triangle are Sin, Cos,

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Tan, Cosec, Sec and Cot. They stand for Sine, Cosine, Tangent, Cosecant, Secant, and Cotangent respectively. In the following section, we will learn the formulas for these trigonometric ratios. We will also learn some funny mnemonics to memorize it.

**Trigonometric Ratios
- Definition,
Formulas, Table, and**

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Study Trigonometric Ratios Of Specific Angles in Trigonometry with concepts, examples, videos and solutions. Make your child a Math Thinker, the Cuemath way.

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Solved Examples ...

By Yang Kuang, Elleyne

Kase . To put angles on

the coordinate plane,

essentially all you do is

look at the trig ratios in

terms of x and y values

rather than opposite,

adjacent, and

hypotenuse. Redefining

these ratios to fit the

coordinate plane

(sometimes called the

point-in-the-plane

definition) makes

visualizing these

easier. Some of the

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angles, for instance,
are larger than 180
degrees ...

Working with Trigonometric Ratios on the Coordinate Plane ...

Until now, we have used the calculator to evaluate the sine, cosine, and tangent of an angle. However, it is possible to evaluate the trig functions for certain angles without using a calculator. This

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is because there are two special triangles whose side ratios we know! These two triangles are the 45-45-90 triangle and the 30-60-90 triangle.

Trig ratios of special triangles (article) | Khan Academy

Trig Ratios of General Angles. This Trig Ratios of General Angles worksheet also includes: Answer Key.

Join to access all

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included materials. In this trig ratios worksheet, learners determine the angle measurement of trigonometric ratios. They find the value of trigonometric function. This approximately four-page worksheet contains 24 problems.

Trig Ratios of General Angles Worksheet for 10th - 12th ...

Trigonometry
Page 17/25

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Trigonometric Ratios. If one of the angles of a triangle is 90° (a right angle), the triangle is called a right angled triangle. We indicate the 90° (right) angle by placing a box in its corner.) Because the three (internal) angles of a triangle add up to 180° , the other two angles are each less than 90° ; that is they are acute.

Trigonometric

Page 18/25

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**Ratios, Maths First,
Institute of ...**

The three trigonometric ratios; sine, cosine and tangent are used to calculate angles and lengths in right-angled triangles. The sine and cosine rules calculate lengths and angles in any triangle.

**Calculating an angle
- Trigonometry -
Edexcel - GCSE
Maths ...**

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In this missing angle worksheet, learners use trigonometry ratios to determine the measurement of a missing angle.

Students identify sine, cosine and tangent ratios. This one-page worksheet contains ten problems.

**Trigonometric Ratio
Lesson Plans &
Worksheets | Lesson
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Trigonometric ratios

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are the ratios between edges of a right triangle. These ratios are given by the following trigonometric functions of the known angle A , where a , b and c refer to the lengths of the sides in the accompanying figure: Sine function (\sin), defined as the ratio of the side opposite the angle to the hypotenuse.

Trigonometry -

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Wikipedia

Learn how to find the sine, cosine, and tangent of angles in right triangles. The ratios of the sides of a right triangle are called trigonometric ratios. Three common trigonometric ratios are the sine (sin), cosine (cos), and tangent (tan). These are defined for acute angle.

Trigonometric ratios

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**in right triangles
(article) | Khan ...**

What are all six trigonometric functions at certain angles? Can we evaluate \sin , \cos , \tan , \csc , \sec , and \cot at multiple angles, either in degrees or radians...

**Trigonometry -
Trigonometric
Functions of General
Angles ...**

Title: Trigonometric
Functions of General

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Angles 1 Trigonometric
Functions of General
Angles. Unit-5

Chapter-13 Section-3 ;

William Marinos; 2

What You Will Learn.

Find values of
trigonometric functions
for general angles ;

Use reference angles
to find values of

trigonometric
functions; 3 Vocab

Review. Initial side A
fixed ray along the ...

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