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angles can be reduced to finding relationships between angles and the measurements of the sides of a triangle. In this case, finding the right basic trigonometric functions to relate the angles and measurements are crucial for setting up and solving the problem correctly.

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In this video tutorial I will show you how to solve word problems involving bearings. Bearings allow us to use direction in a s...

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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 towards
north and @12km/h towards

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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 w.r. to north line
...

How to Solve These Basic
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(Bearings ...

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word problems involving
trigonometry and angles can
be reduced to finding
relationships between angles
and the measurements of the

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sides of a triangle. In this case, finding the right basic trigonometric functions to relate the angles and measurements are crucial for setting up and solving the

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around the perimeter of a
triangular field.

Trigonometric Questions with
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EXAM QUESTIONS involving
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RULES 1. The diagram below,
which is not drawn to scale,
represents the positions of
three mobile phone masts.
Mast Q is on a bearing of
100° from mast P and is 40km
away. The bearing of mast R
from mast Q is 150°. Masts P
and R are 66km apart. N

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revision video This video shows how to use the cosine rule to solve a problem involving bearings. Try the free Mathway calculator and problem solver below to practice various math topics.

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answers provided

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This trigonometry video
highlights the difference

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between bearings and direction in solving word problems. It contains an example problem that illustrates th...

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Trigonometry Word Problems -
YouTube

3. Analyze A Bearings Word Problem Using Trigonometric Ratios and the Law of Cosine
Melody and April go to the same school. Melody's home is 3.5km with a bearing of $S16^\circ W$ from school whilst April's home is 2.4km with a bearing of $N42^\circ E$ from school.

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Bearings and direction word problems | StudyPug
school trigonometry bearing problems with solution most bearing word problems involving trigonometry and angles can be reduced to finding relationships between angles and the measurements of the sides of a triangle in this case finding the right basic trigonometric functions to relate the angles

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$\sin \theta = \frac{\text{opposite}}{\text{side/hypotenuse}}$
 $\sin 30^\circ = \frac{AB}{AC}$. $\frac{1}{2} = \frac{0.9}{AC}$.
 $AC = 0.9 \times 2$. $AC = 1.8$ m.

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Therefore, the length of ramp is 1.8 m. Example 2 : A girl of height 150 cm stands in front of a lamp-post and casts a shadow of length $150\sqrt{3}$ cm on the ground. Find the angle of elevation of the top of the lamp-post.

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