

What's Going On?

Checking In F.F.M.

Minds on Which tool?

Action! How can I find thee?
Let me count the ways...

Consolidation Assignment

Learning Goal - I will be able to identify when to use \sin , \cos , \tan , \sin^{-1} , \cos^{-1} , \tan^{-1} or The Pythagorean Theorem.

 Checking In

R.A.F.T.

If you forgot your book, go
get it now.

If you are late, you are
late.

 Checking In

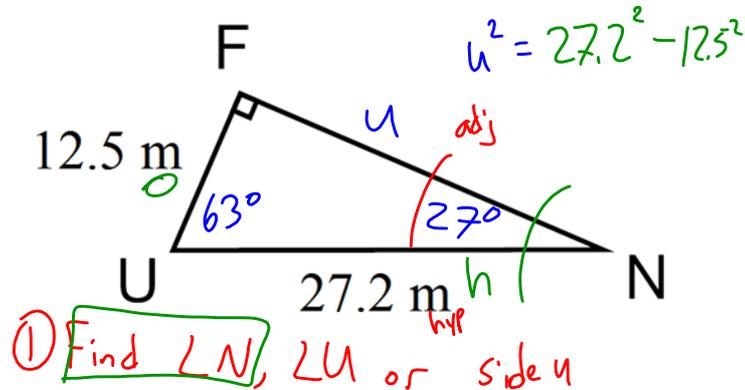
TEST

Wednesday

Checking In

F.F.M. - Entry Card

Solve the triangle below.



$$\sin(N) = \frac{12.5}{27.2}$$

$$\sin(N) = 0.4596$$

$$N = \sin^{-1}(0.4596)$$

$$N = 27^\circ$$

② Find $\angle U$

$$U = 90 - 27$$

$$= 63^\circ$$

③ Find u

$$\cos(27^\circ) = \frac{u}{27.2}$$

$$0.8910 = \frac{u}{27.2}$$

$$24.2 = u$$

$$u = 24.2$$

$$F = 90^\circ$$

$$U = 63^\circ$$

$$N = 27^\circ$$

$$f = 27.2 \text{ m}$$

$$u = 24.2 \text{ m}$$

$$n = 12.5 \text{ m}$$

Minds on

What's in Our Toolbox?

Finding Sides

sin

Used to find a side of a right triangle given an angle and either the opposite or the hypotenuse.

cos

Used to find a side of a right triangle given an angle and either the adjacent or the hypotenuse.

tan

Used to find a side of a right triangle given an angle and either the opposite or the adjacent side.

The Pythagorean Theorem

Used to find a side of a right triangle given the other two sides.

Minds on

What's in Our Toolbox?

Finding Angles

$$\sin^{-1}$$

Used to find an angle given the side opposite the angle and the hypotenuse.

$$\cos^{-1}$$

Used to find an angle given the side adjacent to the angle and the hypotenuse.

$$\tan^{-1}$$

Used to find an angle given the side opposite the angle and the side adjacent to the angle.

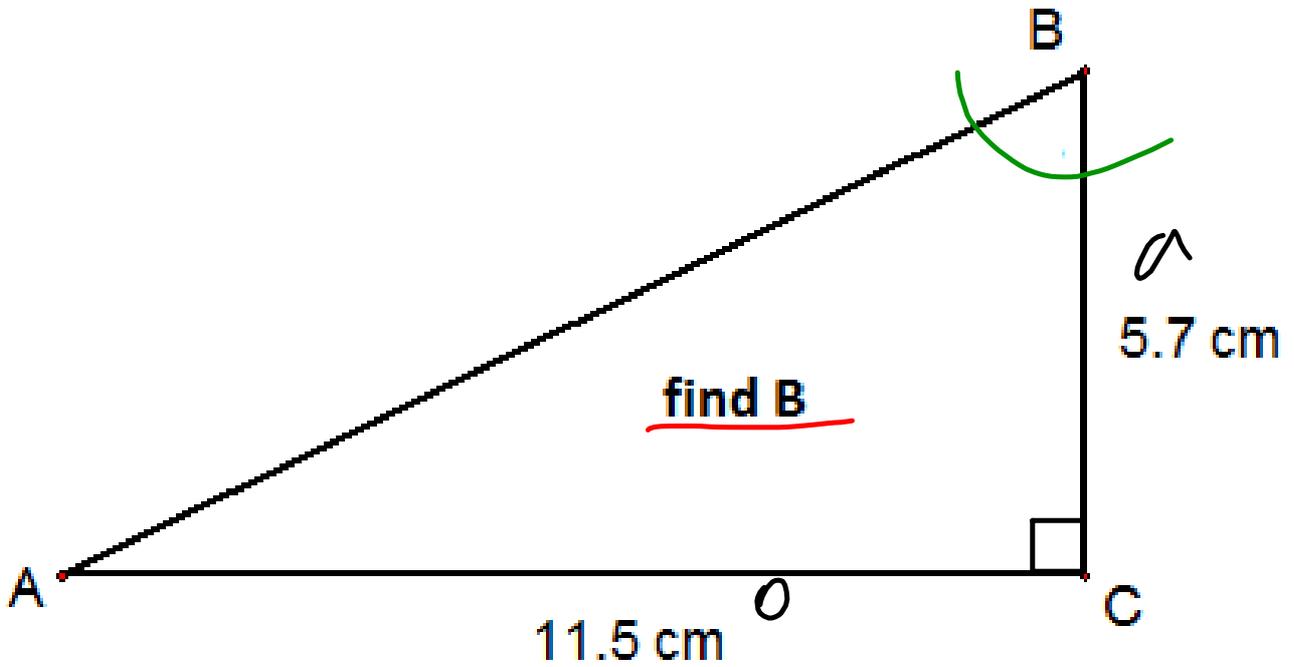
What Would You Use?

Grade: 10

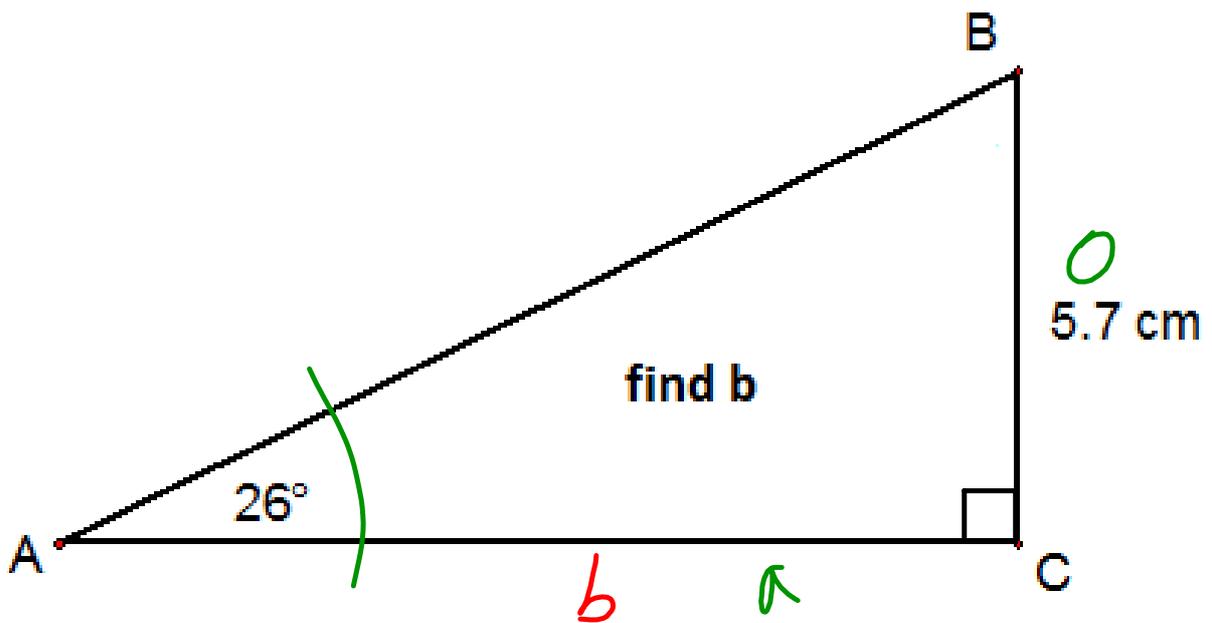
Subject: Trigonometry

Date: October 7

~~a) sin~~ ~~b) cos~~ ~~c) tan~~ ~~d) \sin^{-1}~~ ~~e) \cos^{-1}~~ f) \tan^{-1}
~~g) The Pythagorean Theorem~~

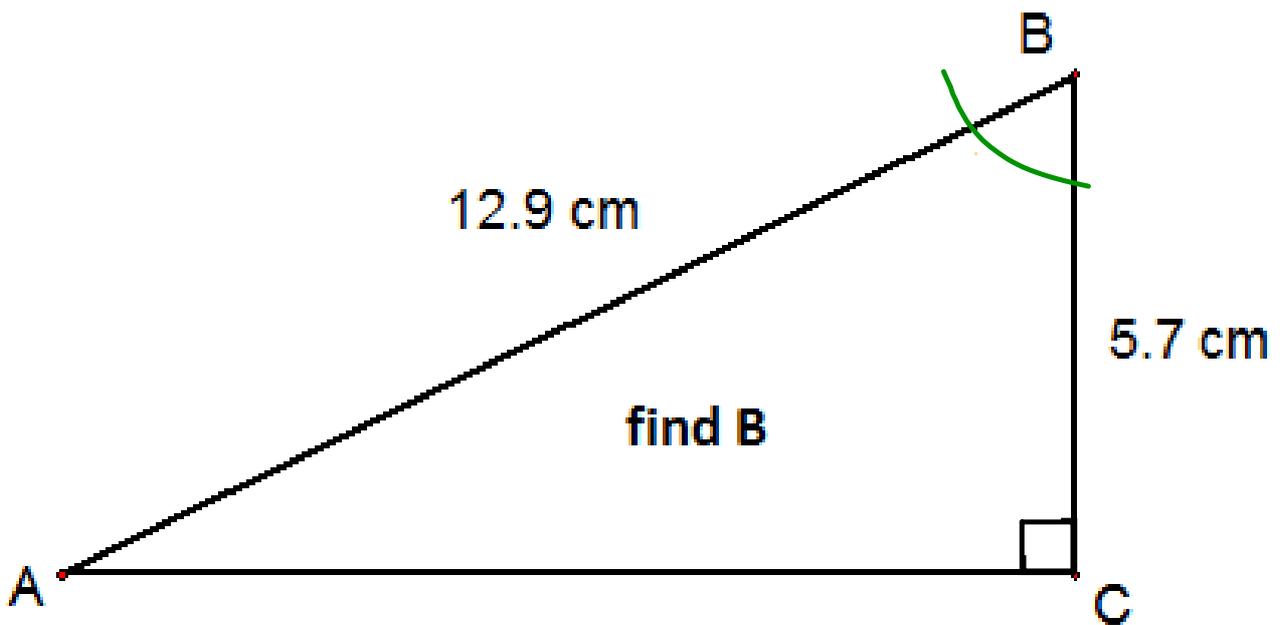


- a) sin b) cos c) tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) The Pythagorean Theorem

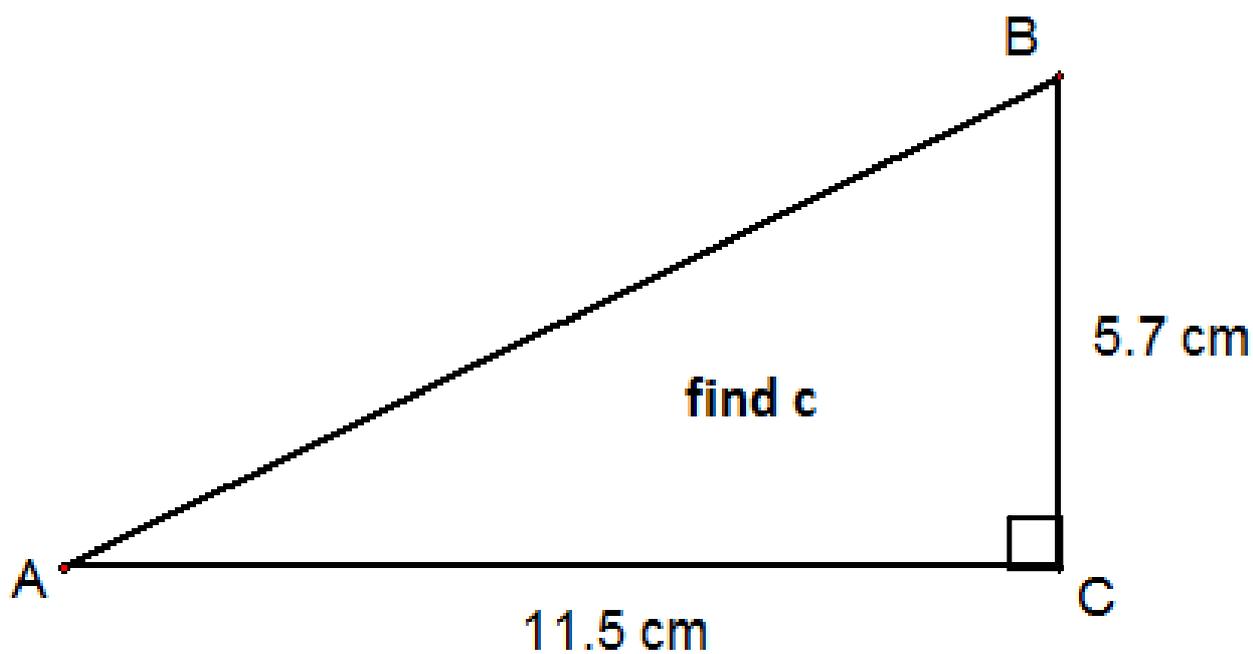


~~a) sin~~ ~~b) cos~~ ~~c) tan~~ d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}

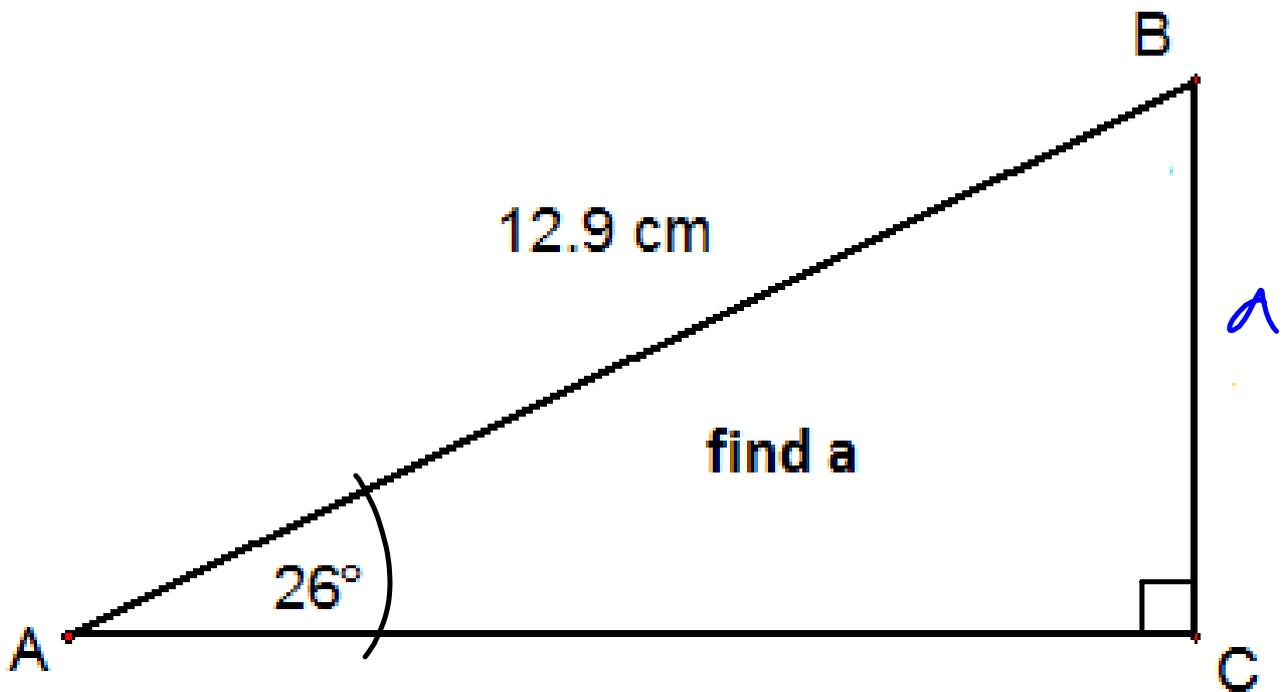
~~g) The Pythagorean Theorem~~



- a) \sin b) \cos c) \tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) The Pythagorean Theorem

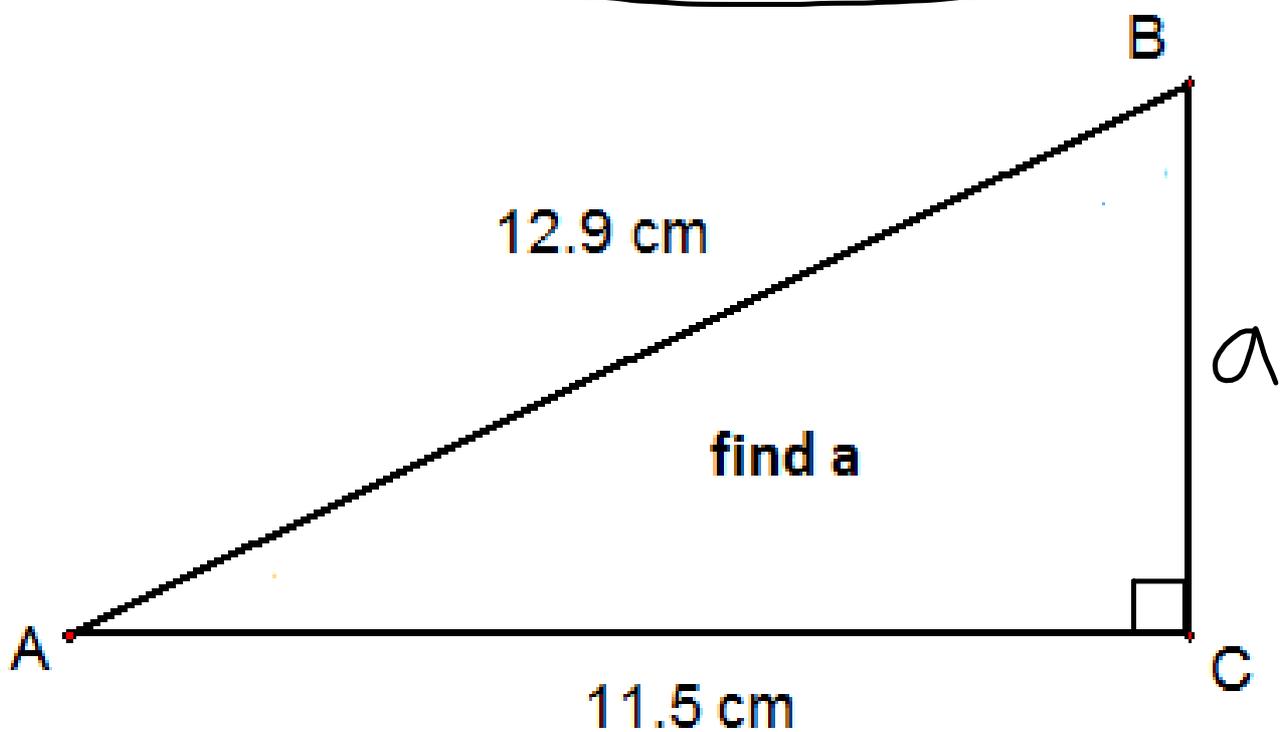


- a) sin b) cos c) tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) ~~The Pythagorean Theorem~~

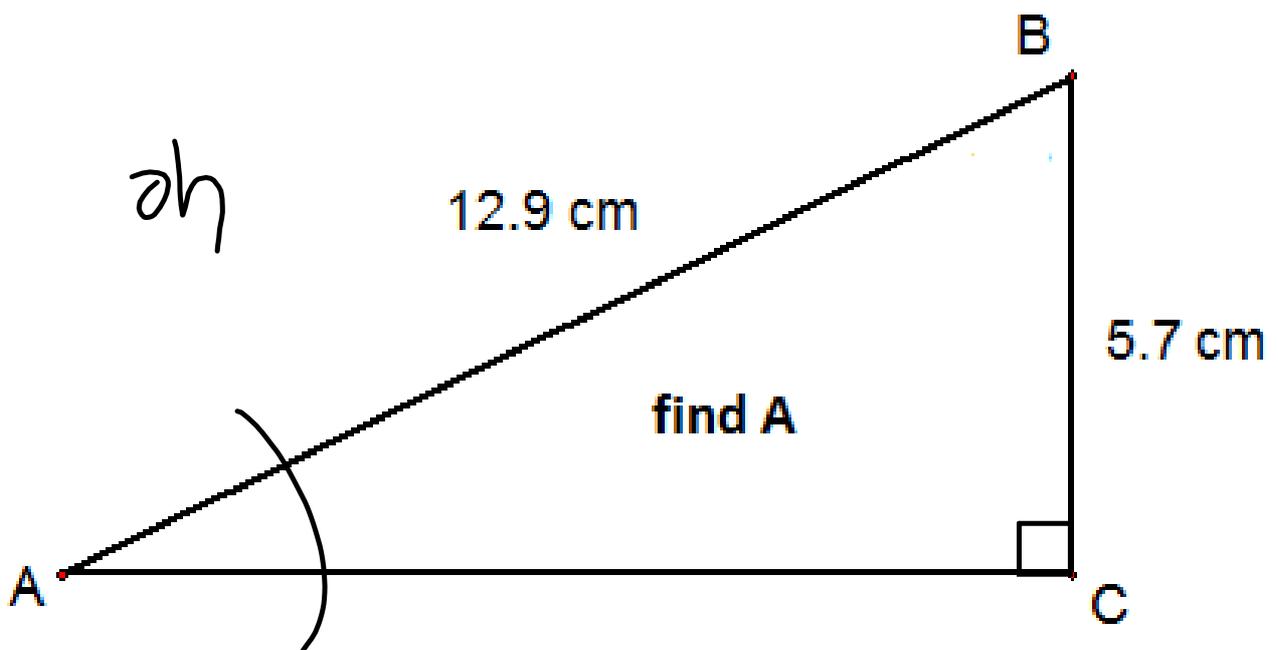


a) sin b) cos c) tan ~~d) \sin^{-1}~~ ~~e) \cos^{-1}~~ ~~f) \tan^{-1}~~

g) The Pythagorean Theorem

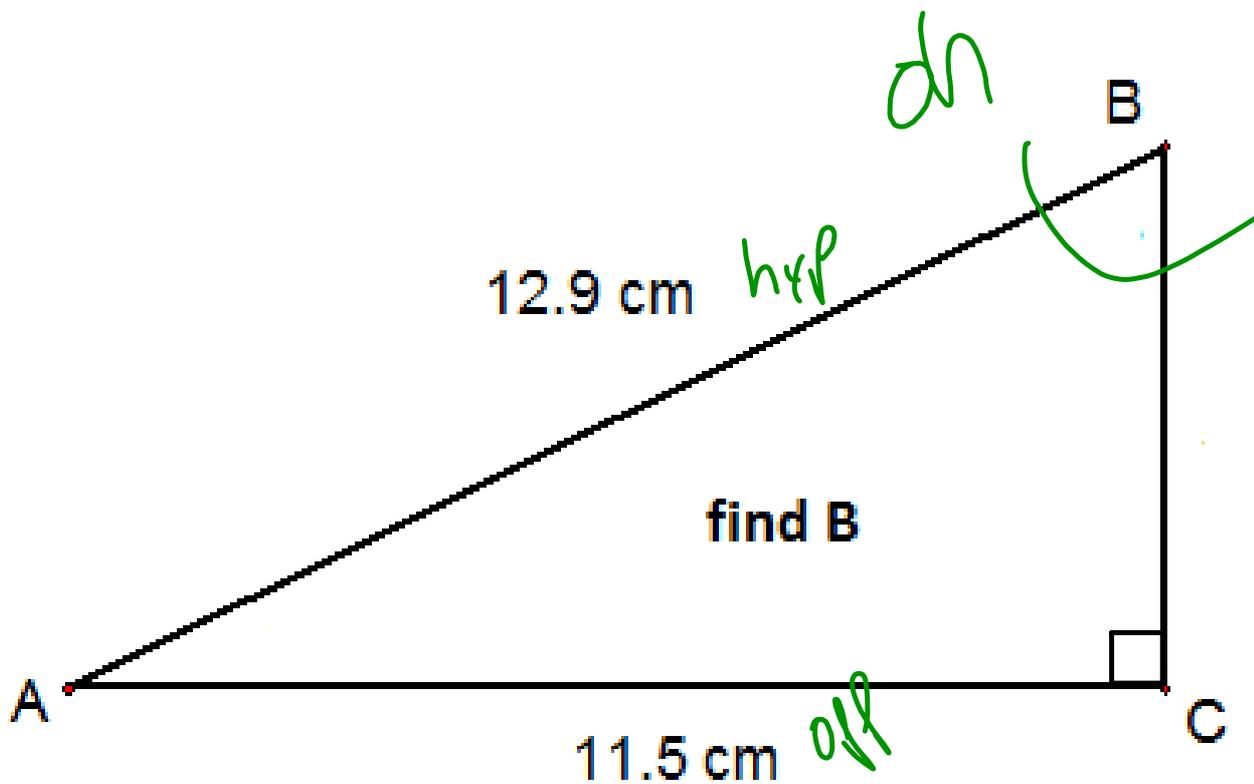


- ~~a) sin~~ ~~b) cos~~ ~~c) tan~~ d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
~~g) The Pythagorean Theorem~~

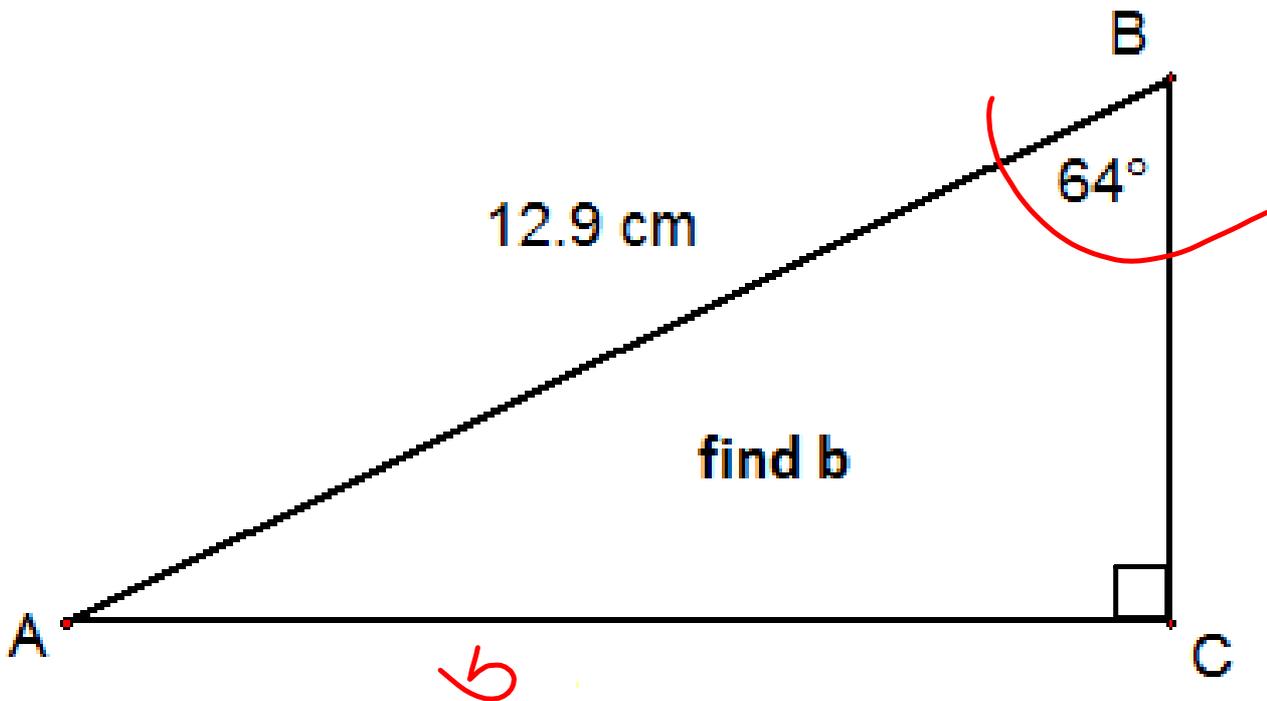


a) \sin b) \cos c) \tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}

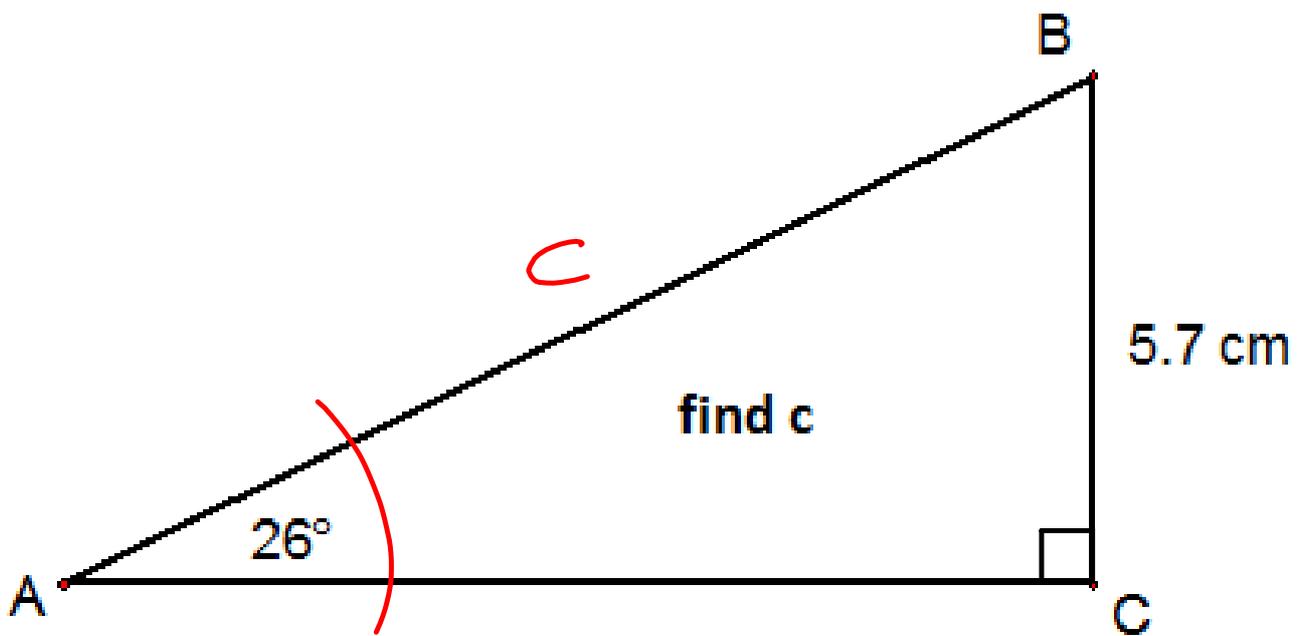
g) The Pythagorean Theorem



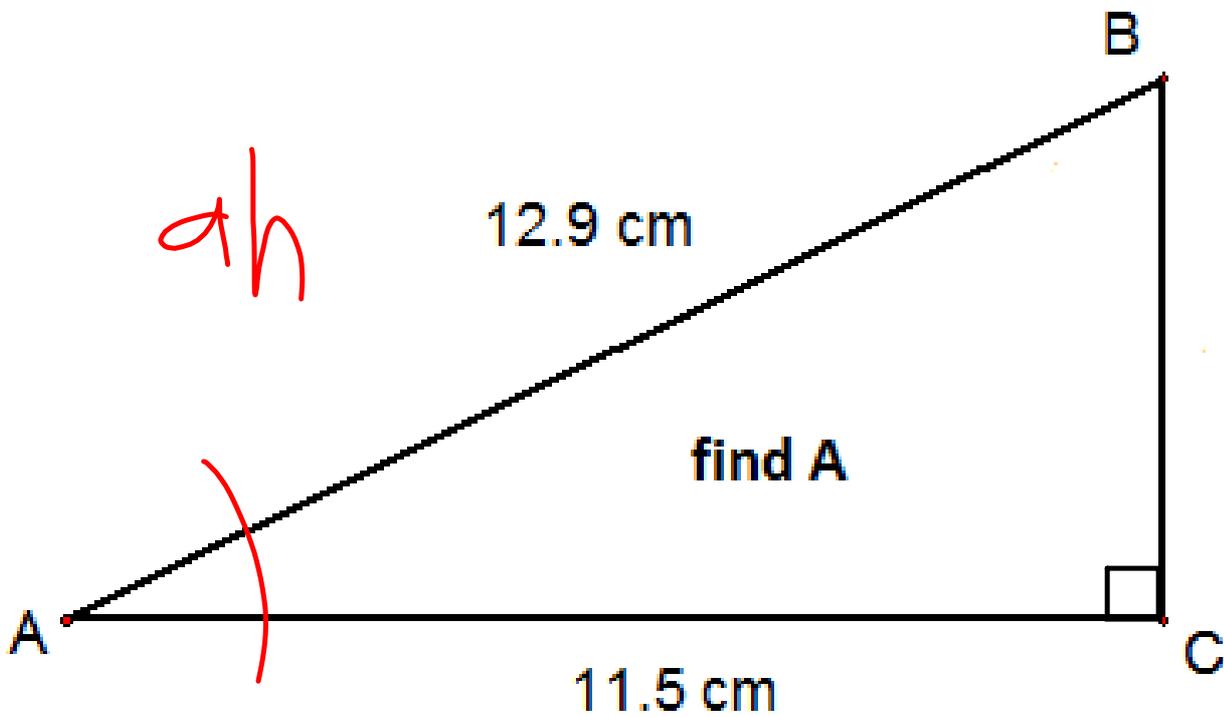
- a) \sin b) \cos c) \tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) The Pythagorean Theorem



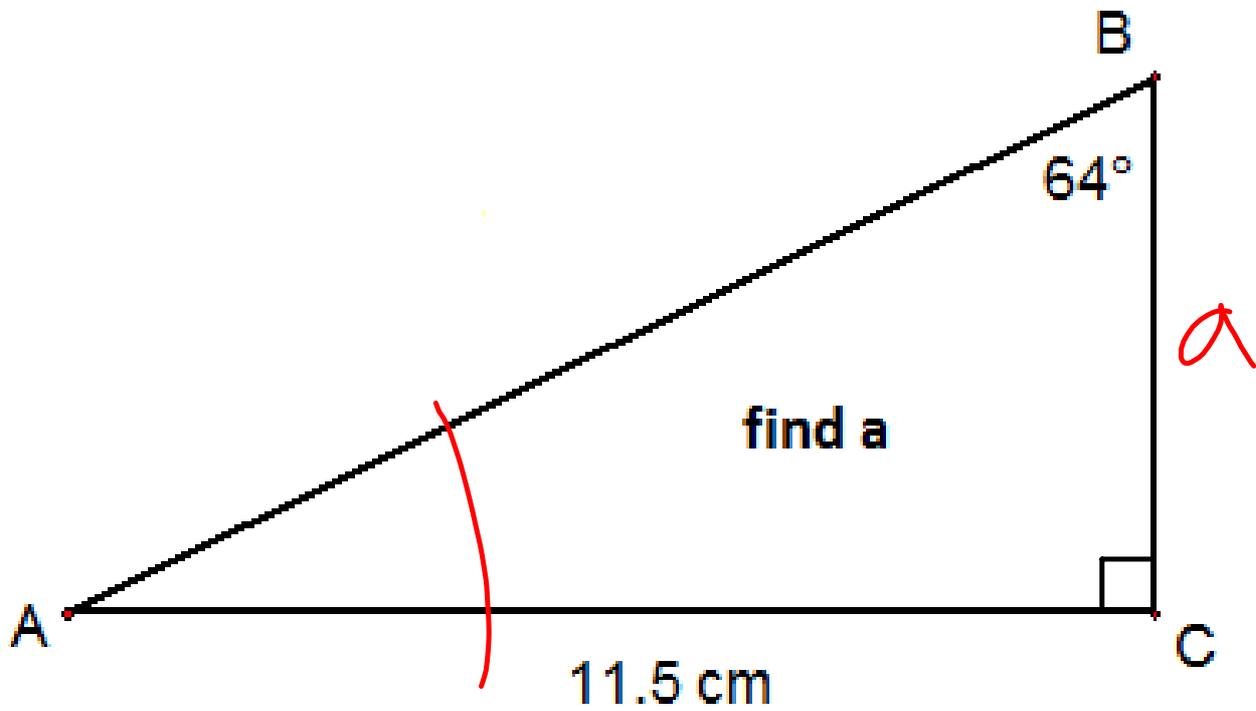
- a) \sin b) \cos c) \tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) The Pythagorean Theorem



- ~~g) sin~~ ~~b) cos~~ ~~c) tan~~ d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) ~~The Pythagorean Theorem~~



- a) \sin b) \cos c) \tan d) \sin^{-1} e) \cos^{-1} f) \tan^{-1}
g) The Pythagorean Theorem



Consolidation

Assignment

TIPS

A smokestack, **AB**, is 205m high. From two points **C** and **D** on the **same side** of the smokestack's base **B**, the angles of elevation to the top of the smokestack are 40° and 36° respectively.

Find the distance between **C** and **D**.

