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Right-Angled Triangles - Finding Missing Sides and Angles

Find the measure of each angle indicated. Round to the nearest hundredth.

1) $\cos^{-1}\left(\frac{12}{15}\right)$ $\theta = 27.46^\circ$ $\tan^{-1}\left(\frac{4}{13}\right)$ $\theta = 17.10^\circ$

2) $\cos^{-1}\left(\frac{4}{5}\right)$ $\theta = 48.19^\circ$ $\tan^{-1}\left(\frac{11.2}{10}\right)$ $\theta = 49.94^\circ$

3) $\tan^{-1}\left(\frac{2.2}{1.4}\right)$ $\theta = 28.51^\circ$ $\cos^{-1}\left(\frac{4}{5}\right)$ $\theta = 36.87^\circ$

4) $\cos^{-1}\left(\frac{3.9}{5}\right)$ $\theta = 66.42^\circ$ $\tan^{-1}\left(\frac{4}{3}\right)$ $\theta = 45^\circ$

Find the measure of each side indicated. Round to the nearest hundredth.

1) $10 \cos 37^\circ = \frac{10}{\cos 37^\circ} = x$ $x = 12.51$

2) $13 \sin 32^\circ = \frac{13}{\sin 32^\circ} = x$ $x = 24.88$

3) $5 \sin 30^\circ = \frac{5}{\sin 30^\circ} = x$ $x = 10$

4) $11 \cos 60^\circ = \frac{11}{\cos 60^\circ} = x$ $x = 22$

The Law of Sines

Find each measurement indicated. Round your answers to the nearest tenth.

1) Find AC

2) Find AB

3) Find BC

4) Find AB

5) Find BC

6) Find m∠C

7) Find m∠C

8) Find m∠C

9) Find m∠A

10) Find m∠C

TRIGONOMETRY - FINDING SIDES (1)

Notes:

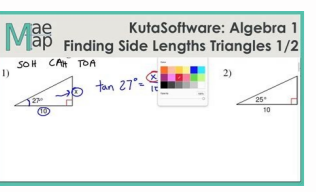
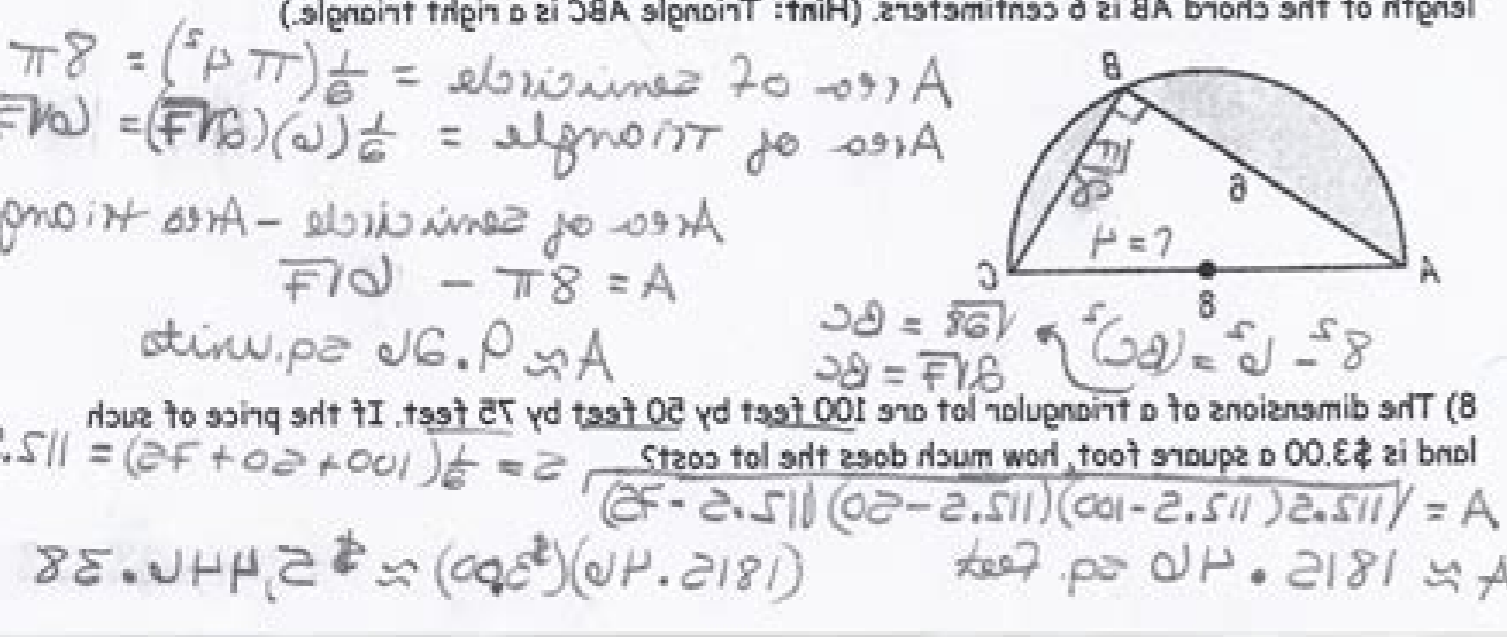
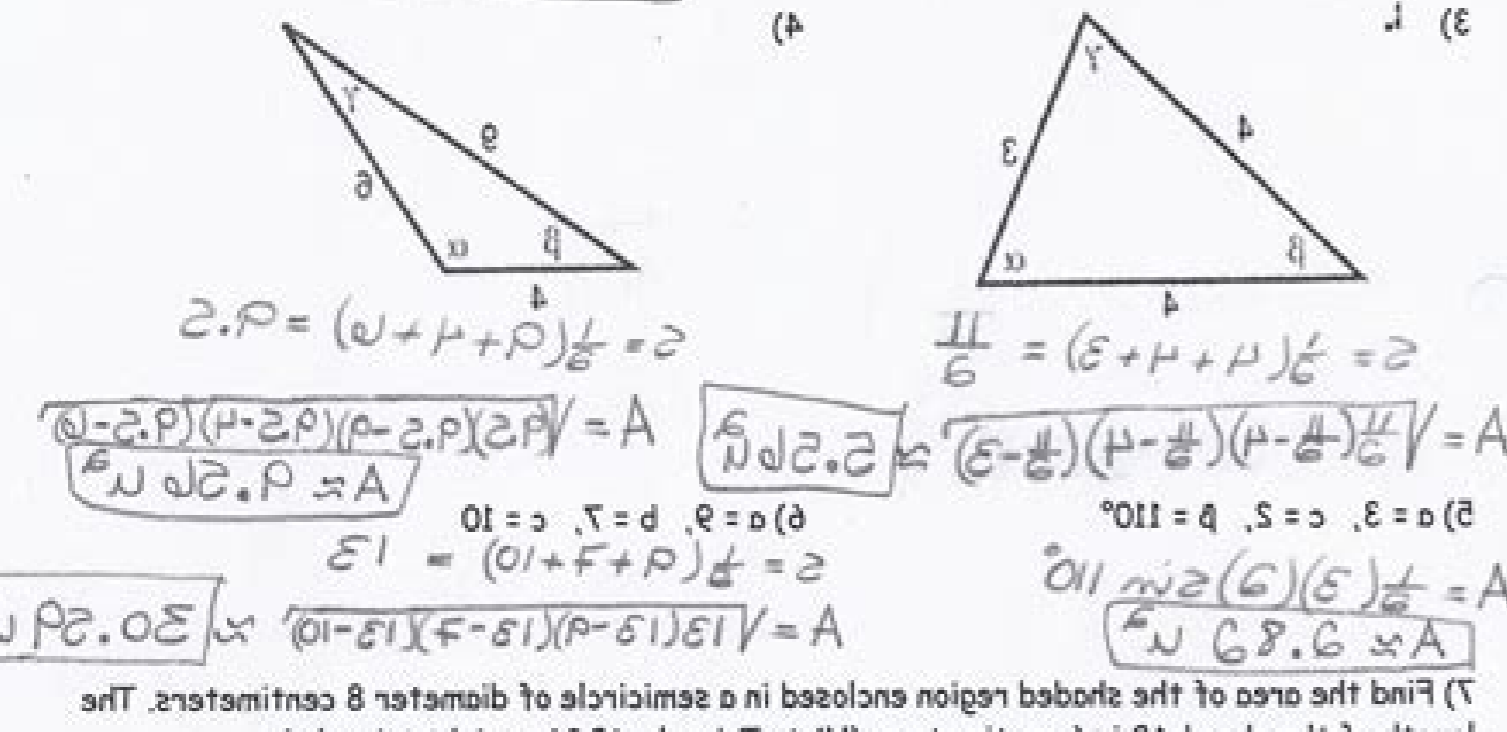
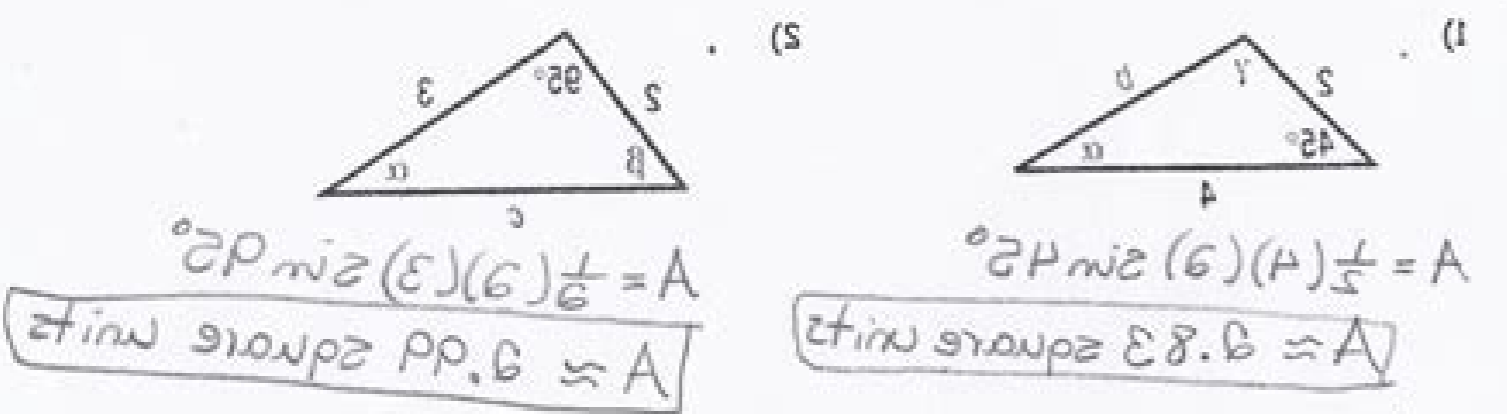
- Label sides - o, a, h
- Choose a suitable ratio: $\sin = \frac{o}{h}$, $\cos = \frac{a}{h}$, $\tan = \frac{o}{a}$
- Calculate side: $\sin 30 = \frac{x}{30}$, $12 \times \sin 30 = x$, $\frac{12 \times 30}{60} = x$, $12 \times \sin 30 =$ or $12 \times 30 \sin^{-1}$

Exercises:

- Calculate the unknown side in each of the following:
 - a) $\sin 20 = \frac{a}{15}$
 - b) $\cos 37 = \frac{a}{30}$
 - c) $\tan 64 = \frac{c}{5}$
 - d) $\sin 52 = \frac{d}{32}$
 - e) $\cos 10 = \frac{e}{18}$
 - f) $\tan 25 = \frac{f}{22}$
- Calculate the lengths of the lettered sides in each of the following. All measurements are in meters.
 - Triangle 1: angle 60, side 12, side a
 - Triangle 2: angle 40, side 10, side b
 - Triangle 3: angle 22, side 15, side c
 - Triangle 4: angle 13, side 34, side d
 - Triangle 5: angle 30, side 15, side e
 - Triangle 6: angle 70, side 17, side f
- A flagpole is held upright by 30m long wires to the ground. If the wires make an angle of 25° to the ground, how high is the flagpole?
 - Diagram: right-angled triangle with hypotenuse 30m, angle 25°, side x

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Find the area of each triangle. Round your answers to two decimal places.



You are reading a free preview page 3 is not shown in this preview. In section 5.3 we were introduced into the breast and cosine function as reports of the sides of a triangle designed within a circle and we spent the rest of that section discussing the role of these functions in the search for points on the circle. In this section, we return to the triangle and explore the applications of the trigonometric functions to the triangles of the right where the clubs may not be involved. Recall that we have defined breast and cosine as $\sin(\theta) = \frac{\text{opposite}}{\text{hypotenuse}}$ and $\cos(\theta) = \frac{\text{adjacent}}{\text{hypotenuse}}$. In this section, we return to the triangle and explore the applications of the trigonometric functions to the triangles of the right where the clubs may not be involved. Recall that we have defined breast and cosine as $\sin(\theta) = \frac{\text{opposite}}{\text{hypotenuse}}$ and $\cos(\theta) = \frac{\text{adjacent}}{\text{hypotenuse}}$. In this section, we return to the triangle and explore the applications of the trigonometric functions to the triangles of the right where the clubs may not be involved. Recall that we have defined breast and cosine as $\sin(\theta) = \frac{\text{opposite}}{\text{hypotenuse}}$ and $\cos(\theta) = \frac{\text{adjacent}}{\text{hypotenuse}}$.

Fixed: Right Triangle Trig - Couldn't select just one ratio except sine. Fixed: Right Triangle Trig - Answer sometimes given in problem. Fixed: Law of Cosines - Certain SAS cases could freeze program. Note: Older versions will not be able to open assignments saved with this version Summer School. Mix and match HMH programs for a summer school curriculum that drives student growth. Easy-to-implement and effective. 11/03/2022 - Consider the triangle ABC where A represents the vector (a i + b j), C represents the vector (4 i + 8 j) and B represents the vector w. Given that the triangle ABC is isosceles and angle ABC is ... Help A study compared the speed x, in miles per hour and the average fuel economy y ... Custom Essay Writing Service - 24/7 Professional Care about Your Writing Get 24/7 customer support help when you place a homework help service order with us. We will guide you on how to place your essay help, proofreading and editing your draft - fixing the grammar, spelling, or formatting of your paper easily and cheaply.

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