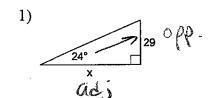
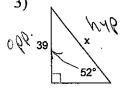
Ch. 5 Review

Find the missing side. Round to the nearest tenth. Or howard the



$$\chi = 65.14$$



$$X = 49.49$$

2)
$$29^{3} \times hyp$$
 24
 019^{5}
 $8in 29^{\circ} = 24$
 $X \cdot 8in 29^{\circ} = 24$
 $X = 49.5$

4)

$$\frac{\cos 65 - \frac{x}{38}}{28}$$

$$x = 38 \cdot \cos 65$$

$$x = 16.06$$

Find each angle measure to the nearest degree.

5)
$$\cos Y = 0.8480$$

$$Y = Cos^{-1}(0.8480)$$

$$[Y = 32^{\circ}]$$

6)
$$\cos Z = 0.9986$$

$$2 = \cos^{-1}(0.9986)$$

 $[2 = 3.03^{\circ}]$

Find the measure of the indicated angle to the nearest degree.

$$\cos\theta = \frac{20}{25}$$

$$\cos \theta = \frac{14}{35}$$
 $\theta = \cos^{-1}(\frac{14}{35})$
 $\theta = 66.42^{\circ}$

$$\Theta = 26.39^{\circ}$$

Pick one:
$$\cos^{-1}(\frac{80}{89}) = 25.99^{\circ}$$

 $\sin^{-1}(\frac{39}{80}) = 25.99^{\circ}$
 $\tan^{-1}(\frac{39}{80}) = 25.99^{\circ}$

Find the area of the triangle. Show all work.

13)
$$\frac{1}{34^{\circ}}$$
 $\frac{1}{34^{\circ}}$ $\frac{1}{34^{\circ}}$

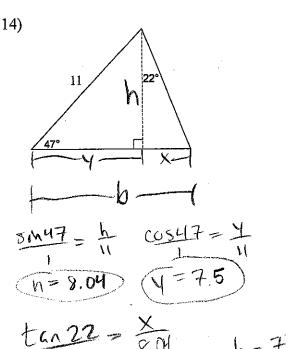
$$tan22 = 22.93$$
 $b = 56.75 + 33.99$
 $y = 56.75$ $A = \frac{90.74.22.93}{2}$

-3-

$$41/1240$$
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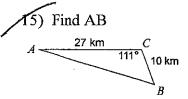
PICK ONO:
$$COS^{-1}(\frac{40}{85}) = 61.93^{\circ}$$

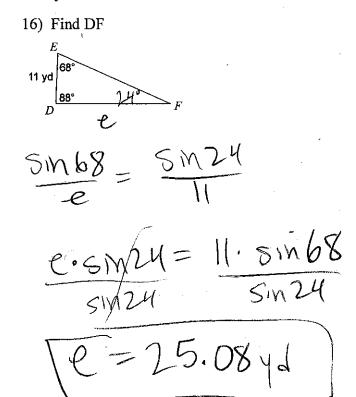
 $SIN^{-1}(\frac{75}{85}) = 61.93^{\circ}$
 $tan^{-1}(\frac{75}{40}) = 61.93^{\circ}$



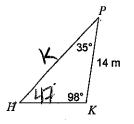
$$t_{4}^{22} = \frac{x}{8.01}$$
 $b = 7.5+3.25$
 $(x = 3.25)$ $A = \frac{10.75 \cdot 8.04}{2}$

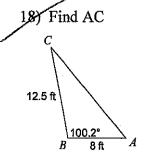
For #'s 15-18, find each measurement indicated. Round your final answers to the nearest tenth.





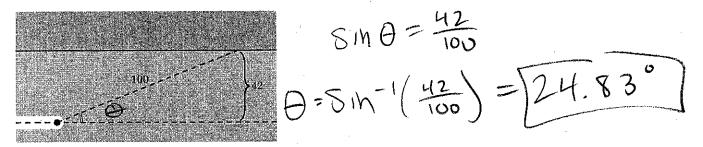






19. Bugs Bunny was 42 meters below ground, digging his way toward Albuquerque, when he realized he wanted to be above ground. He turned and dug through the dirt diagonally for 100 meters until he was above ground.

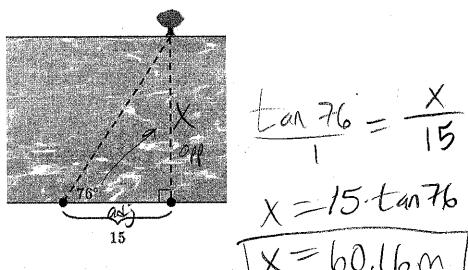
What angle did Bugs have to dig at to reach the surface?



20. The people of Bridgetown wanted to build a bridge across a nearby river. Since they were poor swimmers, their master Trigonomos agreed to measure the width of the river without actually crossing it.

Trigonomos spotted a tree across the river and marked the spot directly across from it. Then he walked to another point 15 meters down the river and found that the angle between his side of the river and the line connecting him to the tree was 76° .

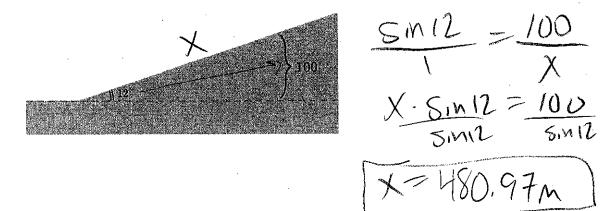
How wide is the river?



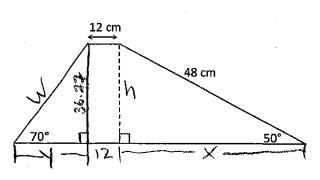
21. Galileo wanted to release a wooden ball and an iron ball from a height of 100 meters and measure the duration of their fall.

He found a plane with an incline of 12° that he could climb until he could get to an altitude of 100 m.

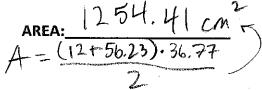
How far should Galileo walk up the inclined plane?



22. Find the area and perimeter of the figure below. Not drawn to scale. Show all work!

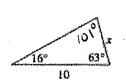


$$5m50 = \frac{1}{48}$$
 $(0850 = \frac{1}{48})$ $(1 = 36.77cm)$ $(1 = 36.77cm)$ $(1 = 36.77cm)$ $(1 = 36.77cm)$ $(1 = 36.77cm)$

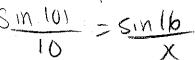


PERIMETER:

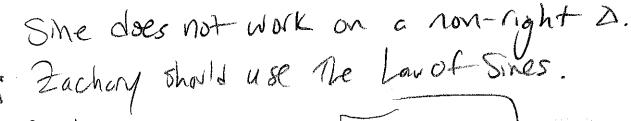
23. While working on homework, Zachary was finding the value of each variable in the diagrams below. His first step for each problem is shown under the diagram. If his first step is correct, continue solving the problem to find the solution. If his first step is incorrect, explain his mistake and solve the problem correctly.

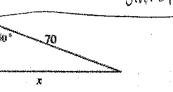


a.

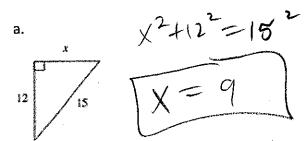


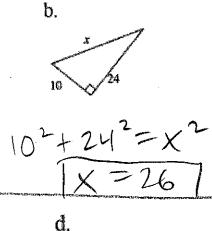
 $\frac{X \cdot SINJO1 = 10.5 in 16}{SINJO1}$

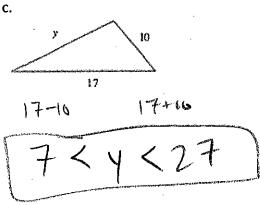


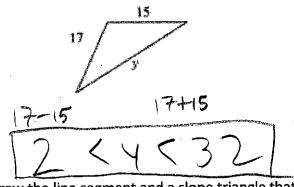


24. In parts (a) and (b), use what you know about Pythagorean Theorem to find the third side quickly. In parts (c) and (d), give all possible lengths (don't find the actual length) for the third side of the triangle.









25. Graph the points (3, -4) and (7, 2) on graph paper and draw the line segment and a slope triangle that connects the points.

Find:

- a. The length of the segment
- b. The slope of the line segment
- c. The area of the slope triangle
- d. The measure of the slope angle

