

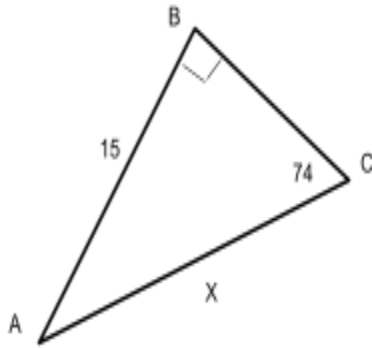
Name: _____

Geometry - Test 5 Review
Trig, SA, Volume, Polygons, Circles

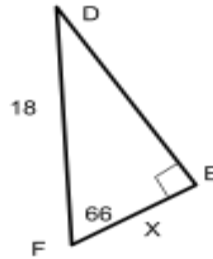
Short Answer:

Find the missing side to the nearest tenth of a decimal.

1.) $X =$ _____

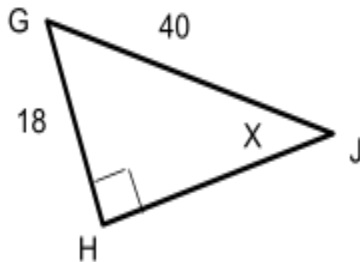


2.) $X =$ _____

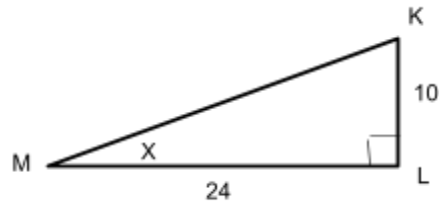


Find the missing angle to the nearest whole number.

3.) $X =$ _____



4.) $X =$ _____



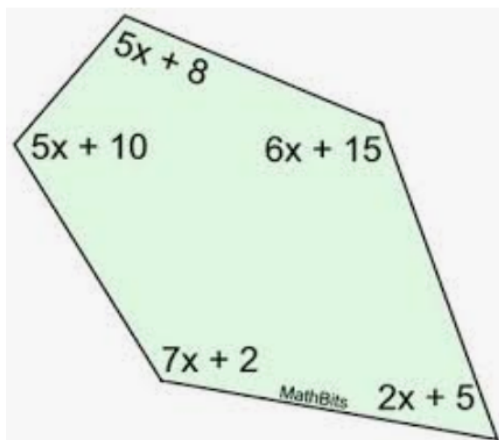
For #5 and 6, draw and label the picture. Determine the trig function. Solve and answer the question. Round answers to the nearest tenth.

5.) Draw a tree with the sun shining behind it. You line yourself up with the sun's rays so your shadow along the ground, matches the end of the tree's shadow. You are 6 feet tall. Your shadow is 18 feet. The tree has a 70 foot shadow. How tall is the tree?

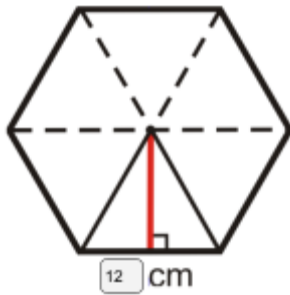
6.) A person is in a boat when they spot a lighthouse. The skipper's angle of elevation is 35 degrees. He knows the lighthouse is 150 feet tall. How far horizontally is he away from the lighthouse. Draw a labeled picture.

7.) Find the sum of the interior angles of a regular dodecagon. Sum = _____

8.) Solve for x. $X =$ _____



Use the picture below to answer Questions #9-11:

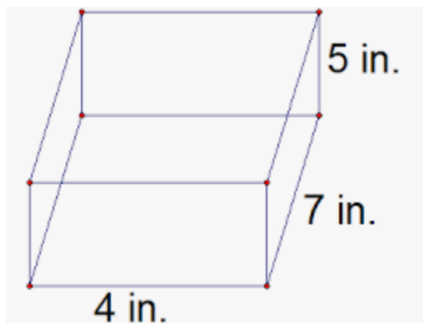


9.) Find the apothem. $a =$ _____

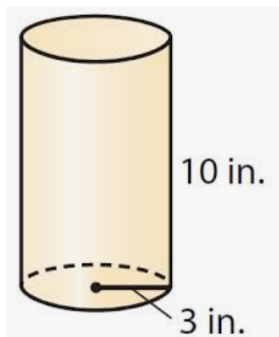
10.) Find the perimeter. $P =$ _____

11.) Use the formula $A = \frac{1}{2}aP$ to find the Area. $A =$ _____

12.) Find the Surface Area of this figure. S.A. = _____



13.) Find the Volume of this figure. Vol = _____



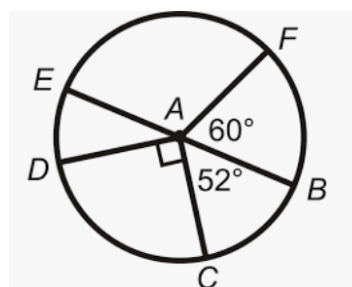
14.) Find the measures of the following arcs.

$m \text{ arcFB} = \underline{\hspace{2cm}}$

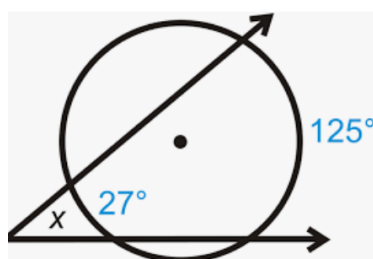
$m \text{ arcBD} = \underline{\hspace{2cm}}$

$m \text{ arcCEF} = \underline{\hspace{2cm}}$

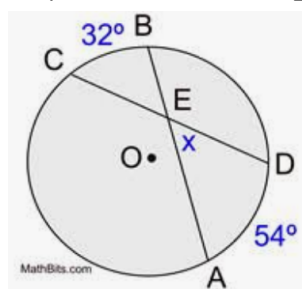
$m \angle EAD = \underline{\hspace{2cm}}$



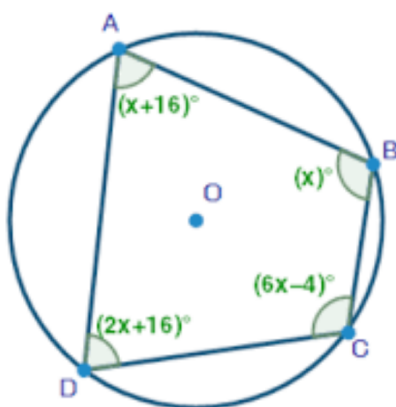
15.) Solve for x . $X = \underline{\hspace{2cm}}$



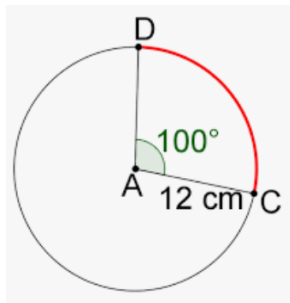
16.) Solve for x . $X = \underline{\hspace{2cm}}$



17.) Solve for x . $X = \underline{\hspace{2cm}}$



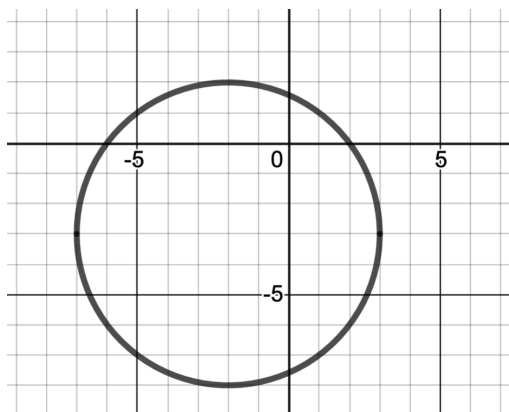
18.) Find the length of the arc. $Arc\ Length = \left(\frac{\theta}{360}\right)2\pi r$



19.) Write the equation of the circle, given the following properties:

Center: (6, -9), Radius = 8 *Equations of Circles:* $(x - h)^2 + (y - k)^2 = r^2$

20.) Write the equation of the circle, given the graph. _____



21.) Graph the circle: $(x - 4)^2 + (y + 2)^2 = 4$

