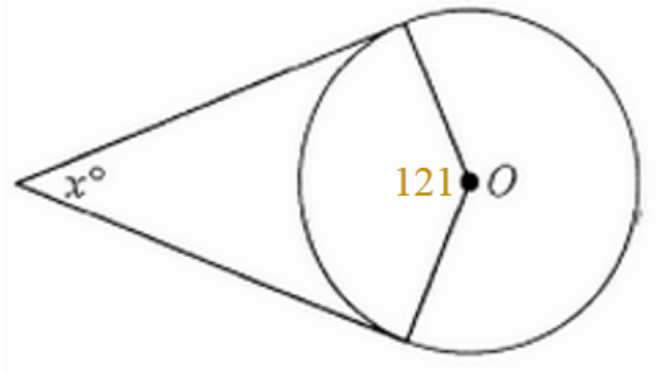


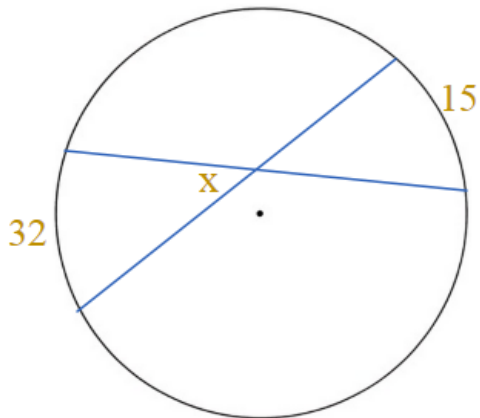
Geometry BC Final Test Review

Read the directions carefully. If reasonable and unless indicated, leave all answers in simplified radical, fractional, and pi form.

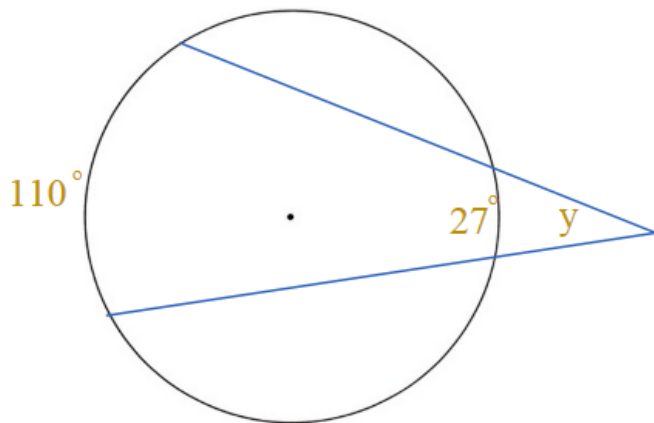
1) Find x .



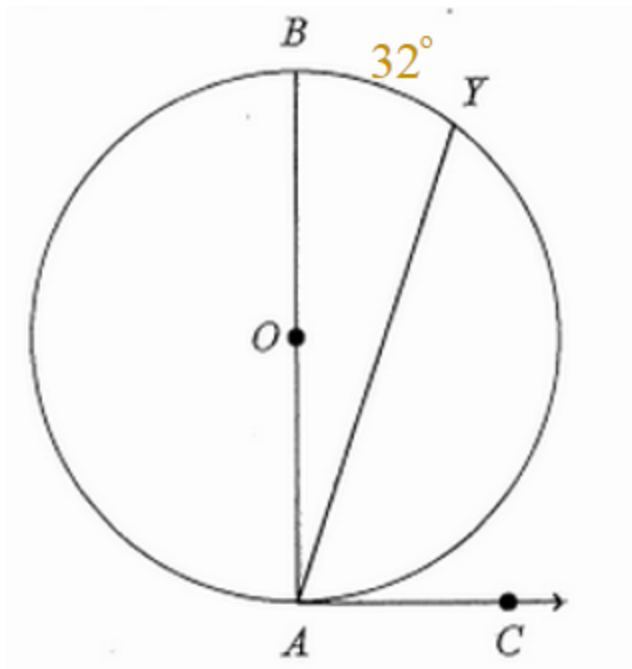
2) Find x .



3) Find y .



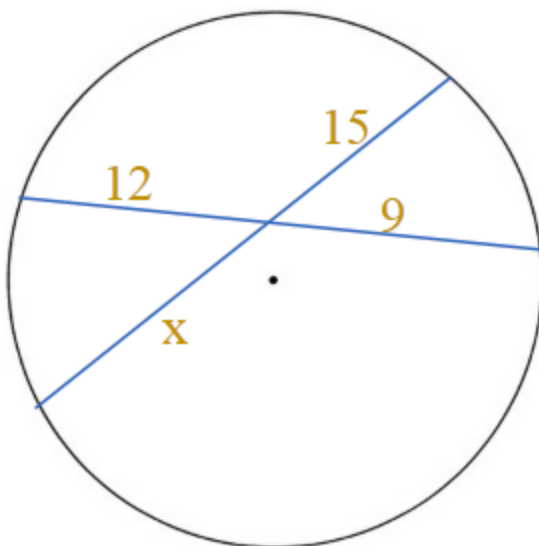
4) Find measure of the angle YAC.



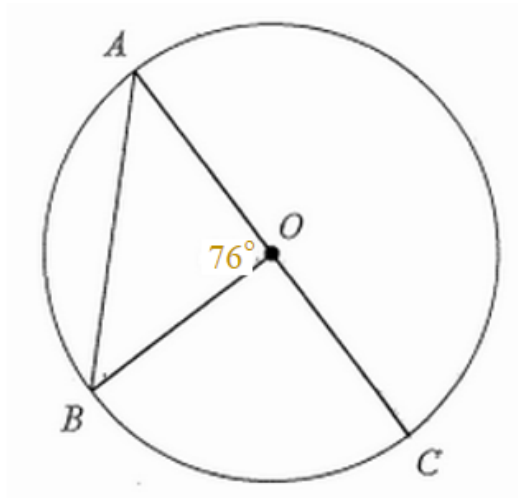
5) Find the center and radius of the circle with equation $(x+8)^2+(y+4)^2=64$.

6) Write the equation of a circle with the center $(-3,7)$, $r=6$.

7) Find x.

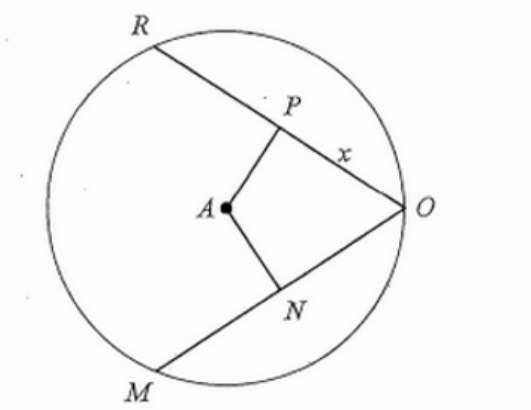


8) Find the measure of the angle BAC.

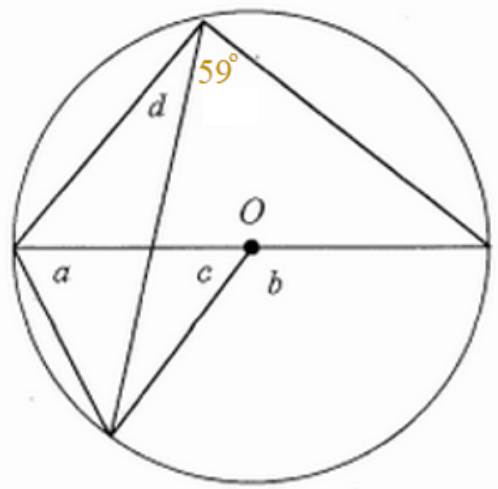


9) Find x.

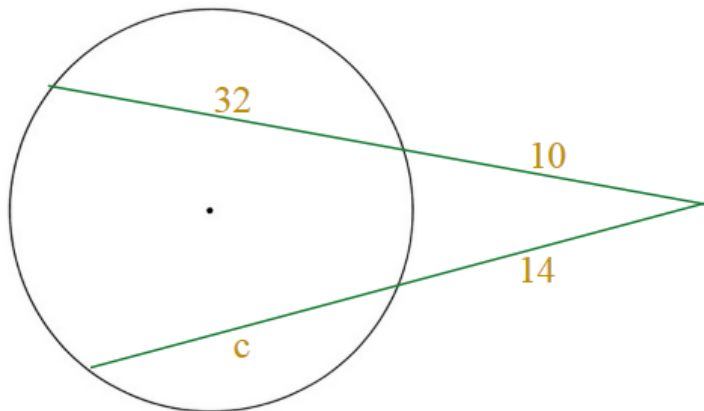
$NA \cong PA$, $MO \perp NA$, $RO \perp PA$, $MN = 120$ ft



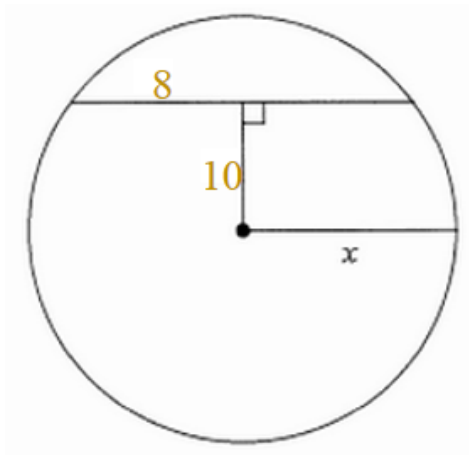
10) Find a, b, c, and d.



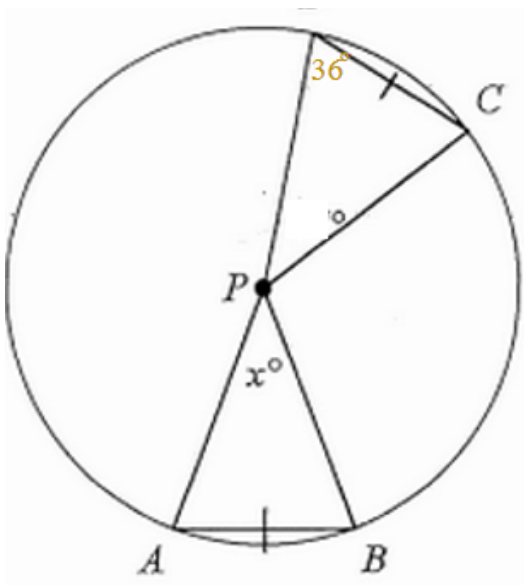
11) Find c .



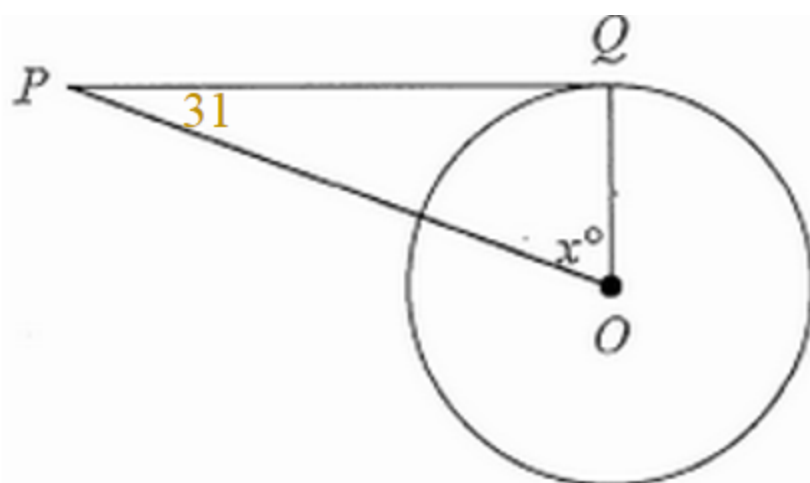
12) Find x .



13) Find x .

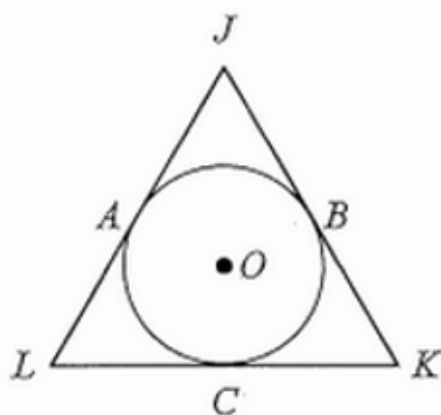


14) Find x .

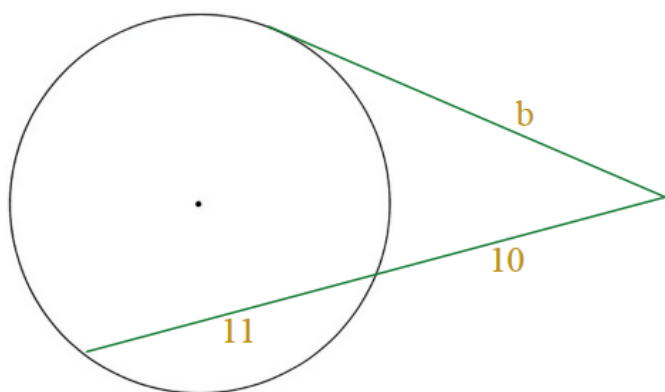


15)

$\overline{JK}$, $\overline{KL}$, and $\overline{LJ}$ are all tangent to O (not drawn to scale). $JA = 11$, $AL = 12$, and $CK = 13$. Find the perimeter of $\triangle JKL$.

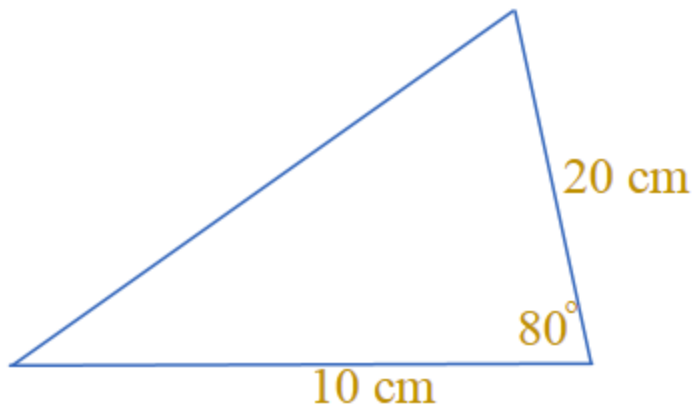


16) Find b .

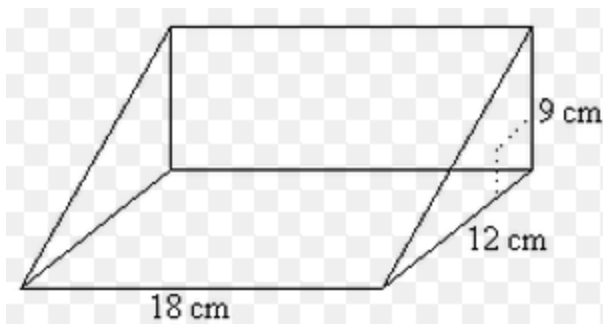


17) Find the area of a regular decagon with a side of 8 cm.

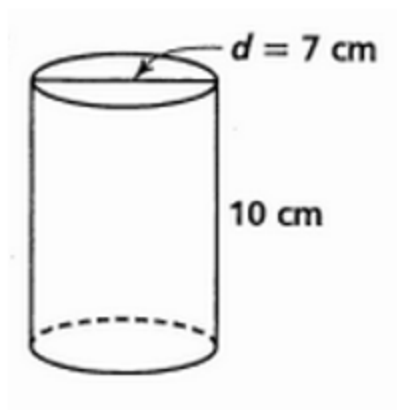
18) Find the area of the triangle.



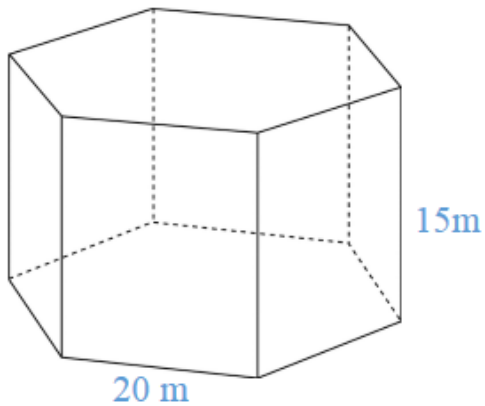
19) Find the Lateral Area and Surface Area.



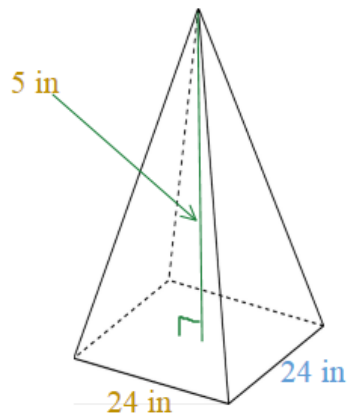
20) Find the surface area of the cylinder in terms of pi.



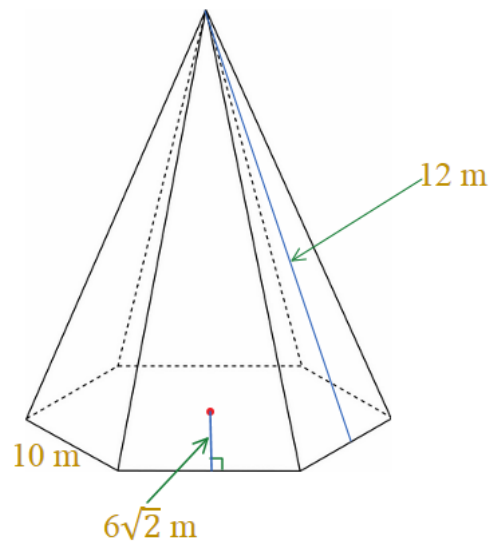
21) Regular Hexagonal Prism. Find the volume.



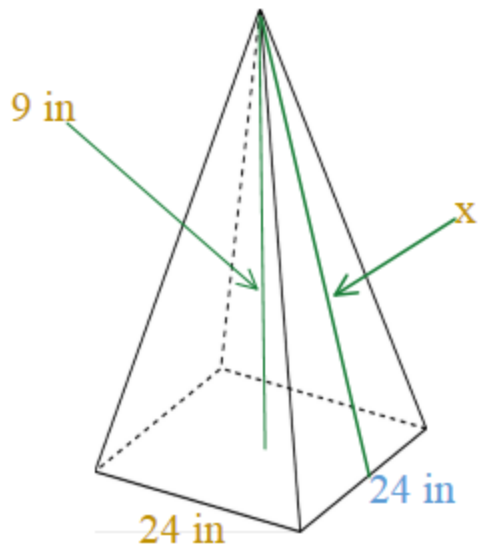
22) Find the surface area of the square pyramid.



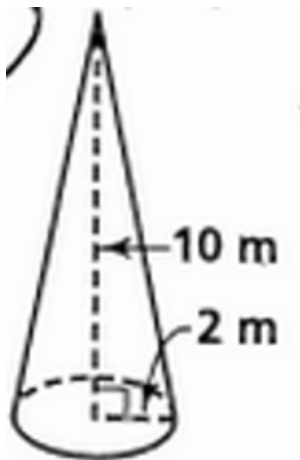
23) Find the surface area of the regular hexagonal pyramid.



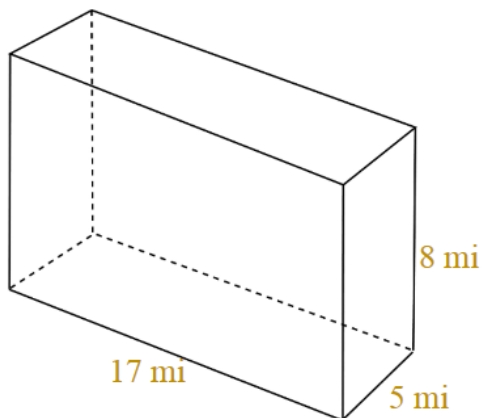
24) Find x .



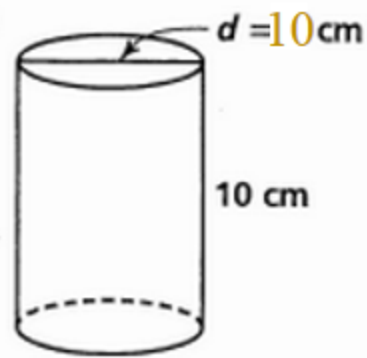
25) Find the surface area of the cone in terms of π .



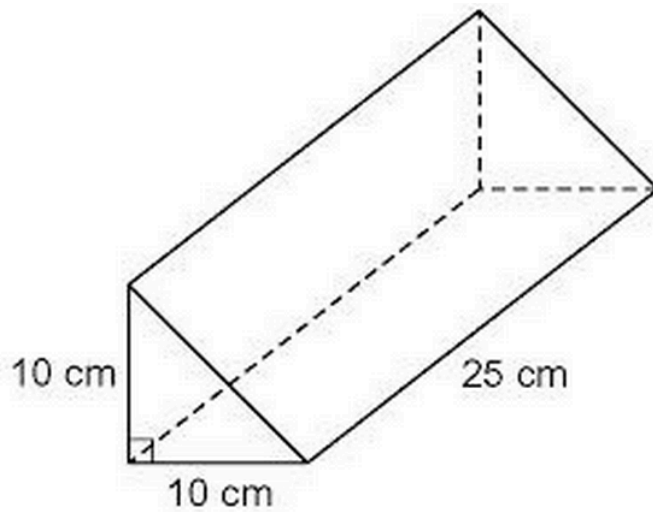
26) Find the volume of the rectangular prism.



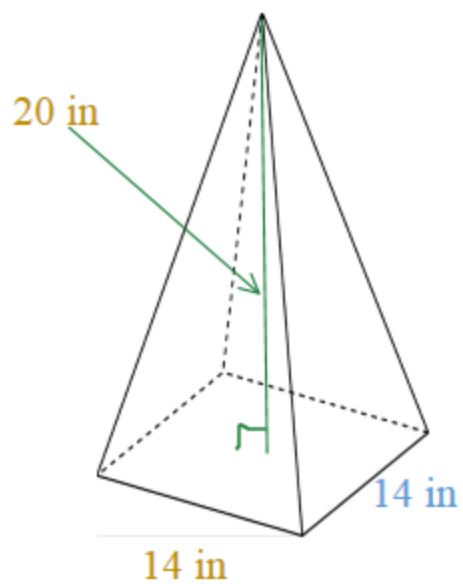
27) Find the volume of the cylinder.



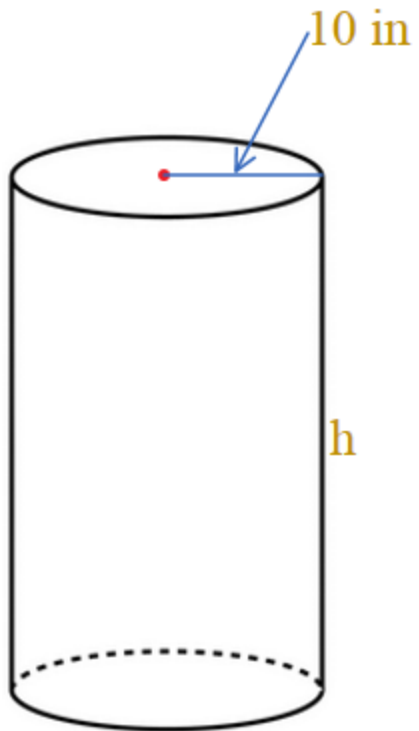
28) Find the volume of the triangular prism.



29) Find the volume of the pyramid.



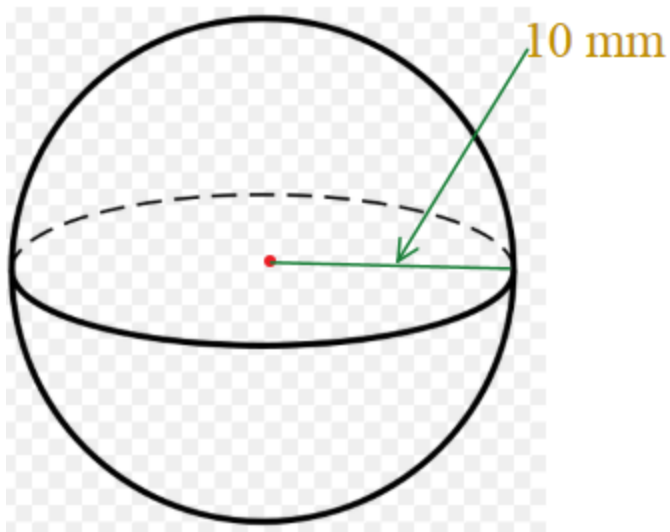
30) Find the height of the cylinder given that the volume=1500 in cubed.



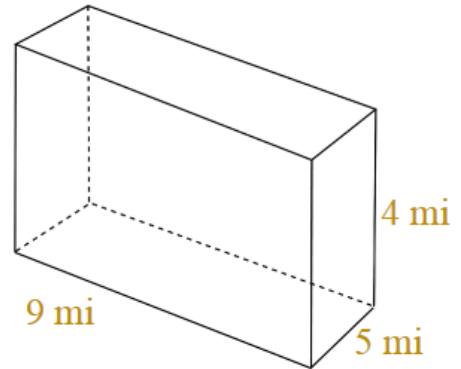
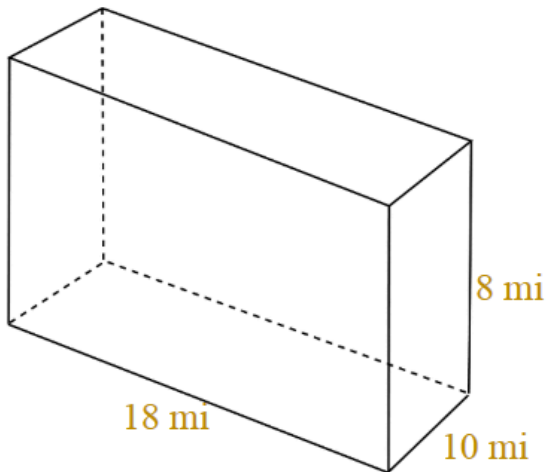
31) Find the surface area of a sphere with the diameter of 22 cm.

32) Find the volume of cone with a true height of 16 m and the radius of 10 m.

33) Find the volume of the sphere.

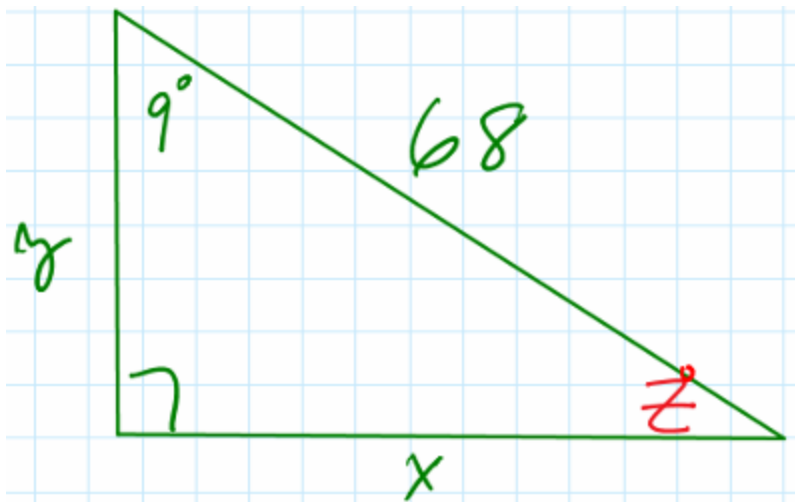


34) Are the two figures similar? If so, give the similar ratio of the larger figure to the smaller figure with respect to their dimensions.

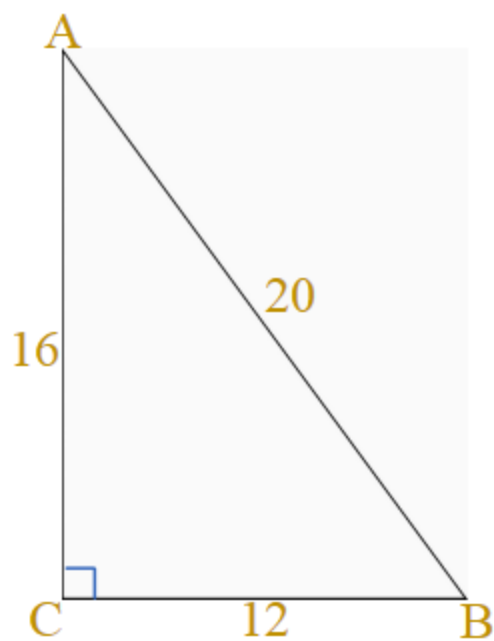


35) The volumes of two similar solids are 4913 m cubed and 1000 m cubed. The surface of the larger solid is 200. What is the surface area of the smaller solid?

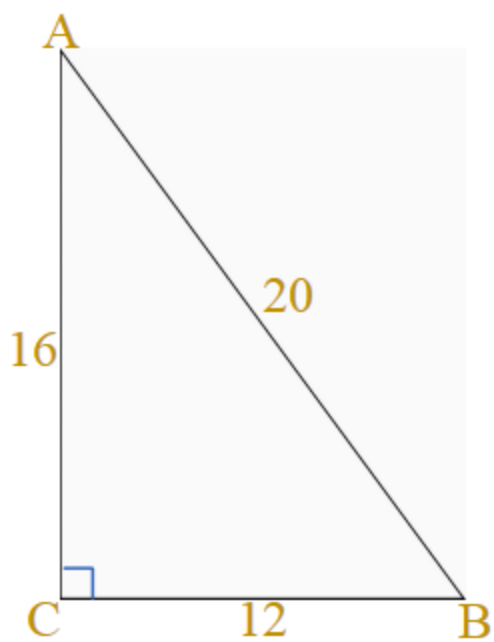
36) Find x , y , and z .



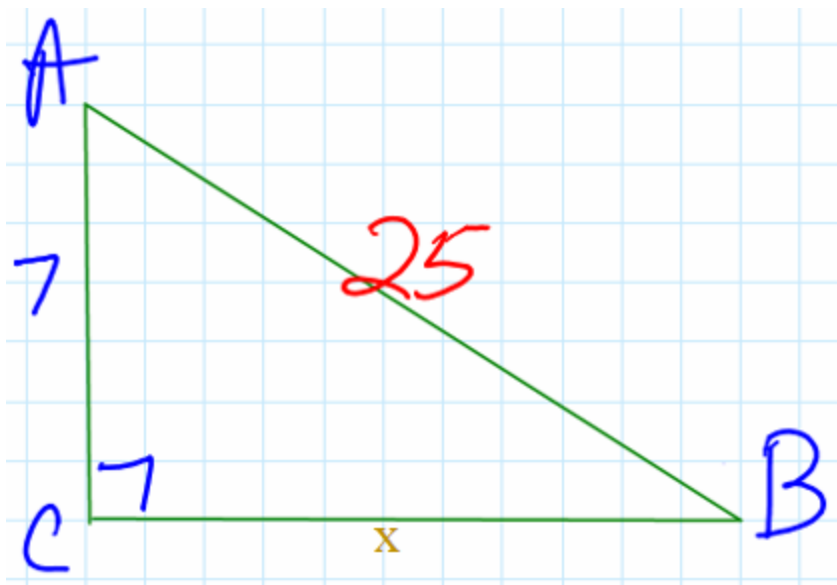
37) Find angle measure for A and B.



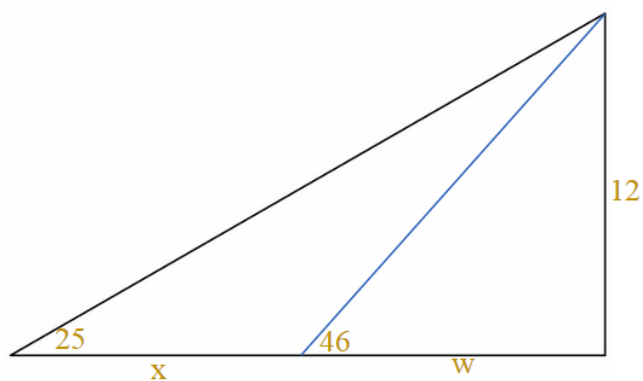
38) Write the tangent ratios for angle A and B.



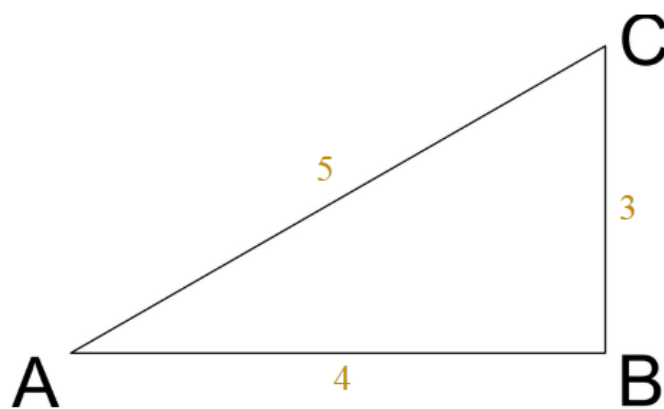
39) Find the missing side and angles.



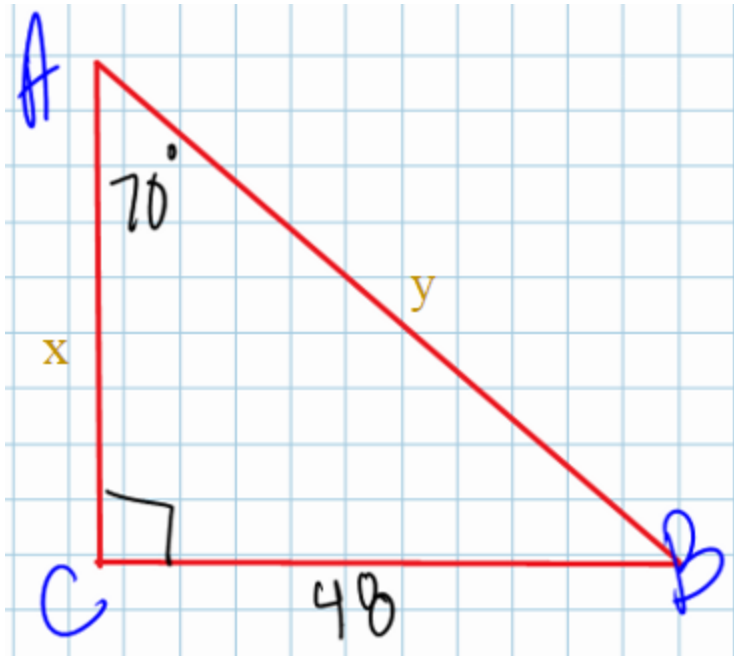
40) Find x and w .



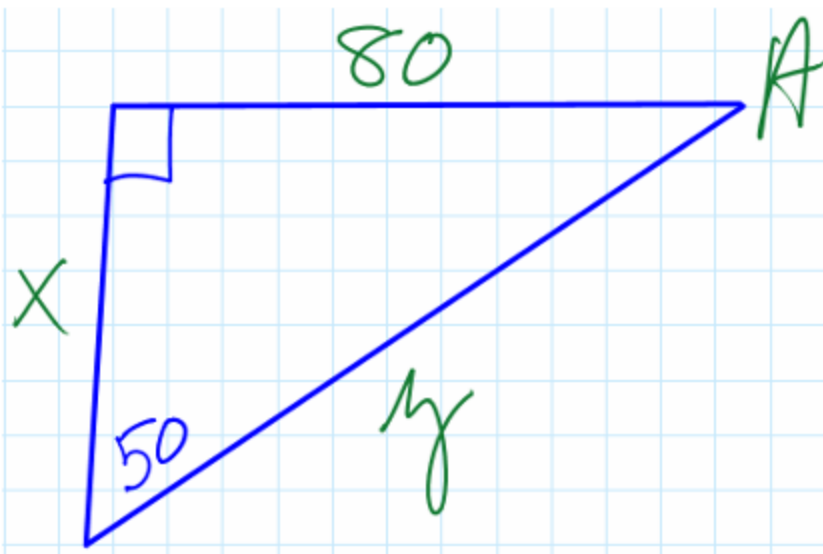
41) Write the ratio for $\sin A$ and $\cos A$.



42) Find x and y .



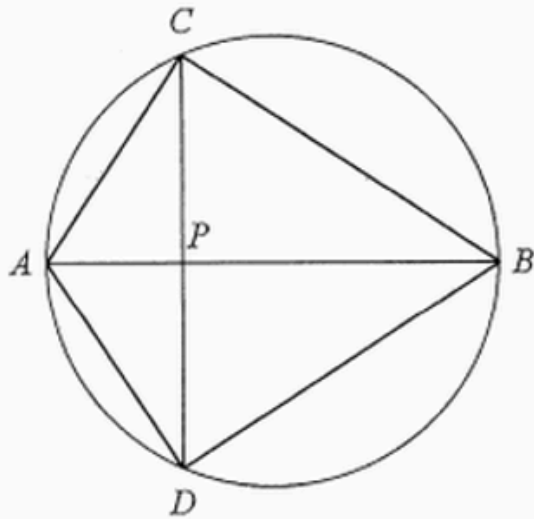
43) Find x and y .



44) To find the height of a pole, a surveyor moves 150 feet away from the base of the pole and then, with a transit 6 ft tall, measures the angle of elevation to the top of the pole to be 44 degrees. To the nearest foot, what is the height of the pole?

45)

Use the diagram. $\overline{AB}$ is a diameter, and $\overline{AB} \perp \overline{CD}$. The figure is not drawn to scale.



Find $m\angle CAP$ for $m\angle CBD = 78^\circ$