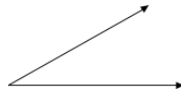


2.10: Exercises

1. Classify the angle below as acute, obtuse, or right.



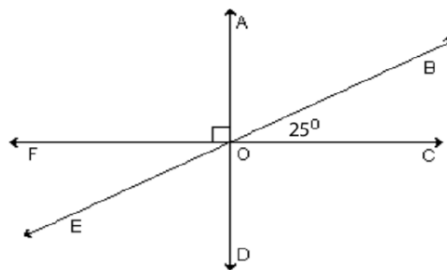
2. Classify the angle below as acute, obtuse, or right.



3. Classify the angle shown as acute, obtuse, or right.



4. Use the picture below to answer the following questions. *Note, $\angle AOF$ is a right angle.*



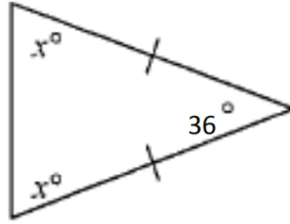
- Which angle is supplementary to $\angle BOC$?
 - Which angle is complementary to $\angle BOC$?
 - What is the measure of $\angle EOF$?
 - What is the measure of $\angle AOE$?
 - What is the measure of $\angle BOF$?
5. Find the unknown angle measure.



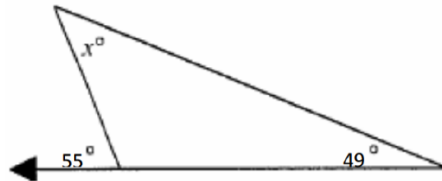
6. Find the unknown angle measure.



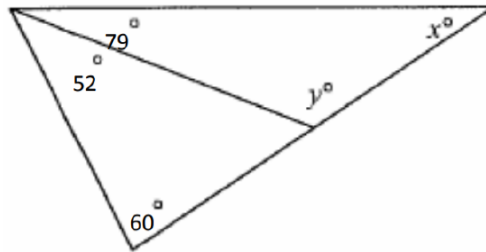
7. Find the unknown angle measure.



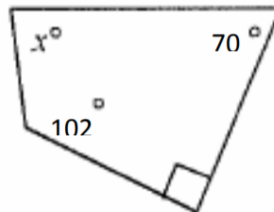
8. Find the unknown angle measure.



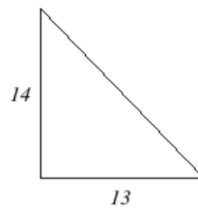
9. Find the unknown angle measures.



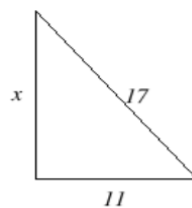
10. Find the unknown angle measure.



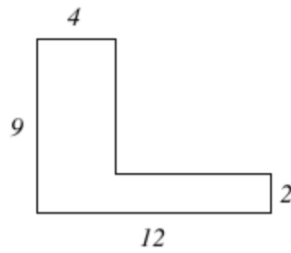
11. Find the length of the hypotenuse of the given right triangle pictured below. Round to two decimal places.



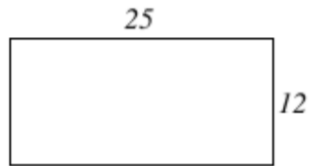
12. Find the length of the leg x . Enter the exact value, not a decimal approximation.



13. Find the perimeter of the figure pictured below.

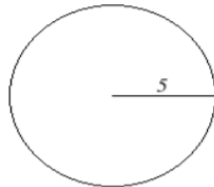


14. Find the perimeter of the rectangle pictured below.

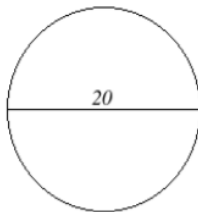


15. Find the perimeter of the parallelogram shown below.

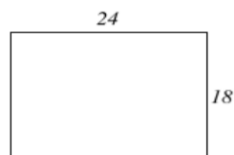
16. Find the circumference of the circle pictured below. *Round your answer to the nearest hundredth.*



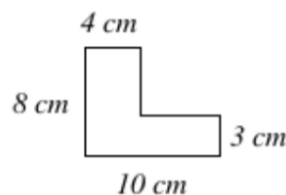
17. Find the circumference of the circle pictured below. *Round your answer to the nearest hundredth.*



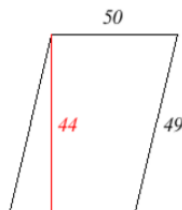
18. Find the area of the rectangle pictured below.



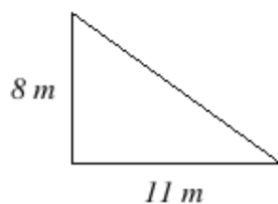
19. Find the area of the figure pictured below and state the correct units.



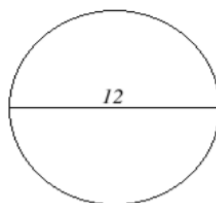
20. Find the area of the parallelogram shown below.



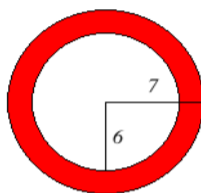
21. The area of a triangle can be found using the formula: $\text{Area} = \frac{1}{2} \cdot \text{base} \cdot \text{height}$. Find the area of the triangle pictured below, where the measurements are given in meters (m).



22. Find the area of the circle pictured below. Round your answer to the nearest hundredth.



23. Find the area of the shaded area. Round your answer to the nearest tenth.



24. Match the formula for each volume to the figure to which it applies.

Figure	Volume
Right Circular Cylinder	A. $V = \frac{4}{3}\pi r^3$
Rectangular Solid	B. $V = \pi r^2 h$
Sphere	C. $V = l \cdot w \cdot h$

25. The volume of a cylinder with height h and radius r can be found using the formula $V = \pi r^2 h$. Sketch a cylinder with radius 7 feet and height 4 feet, then find the volume and select the correct units. Round your answer to the nearest tenth.

26. The volume of a cone with height h and radius r can be found using the formula $V = \frac{1}{3}\pi r^2 h$. Sketch a cone with radius 9 feet and height 3 feet, then find the volume and select the correct units. *Round your answer to the nearest tenth.*

27. A sports ball has a diameter of 26 cm. Find the volume of the ball and select the correct units. *Round your answer to 2 decimal places.*

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