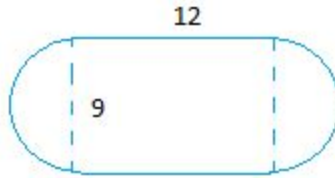


## Tenth Grade

Name:

Date:

1. What is the perimeter and area of the following running track?



2. Which line or lines are perpendicular to the line  $y = 6x - 8$  ?

A.  $y = 6x + 1$

B.  $x - 6y = 9$

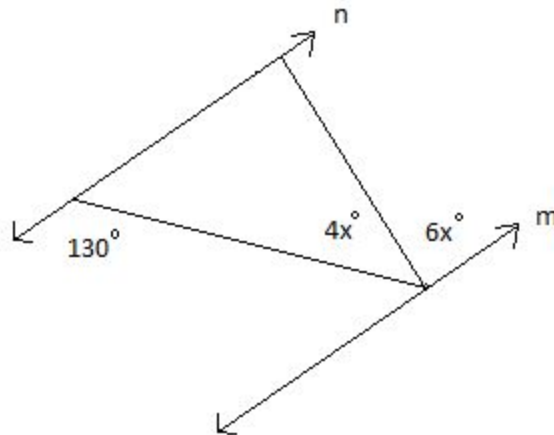
C.  $x + 6y = -3$

D.  $y = -6x - 1$

3. Find two angles that are supplementary and vertical at the same time

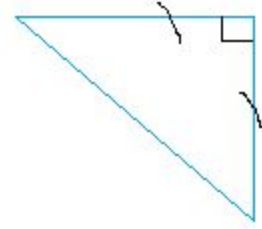
4. What is the measure of an exterior angle of a regular 10-gon?

5. In the figure below, line  $n$  is parallel to line  $m$ . Find the measure of all angles inside line  $n$  and line  $m$ .



6. Find the volume and surface area of a sphere with radius 4 cm

7. What kind of triangle is the one below? Find all 3 angles.



- A. Equilateral      B. Right  
C. Right isosceles      D. Scalene

8. In triangle UVW,  $UV = 9$ ,  $VW = 7$ , and  $UW = 11$ . Which angle is the biggest?

- A. Angle U      B. Angle V      C. Angle W      D. not enough information

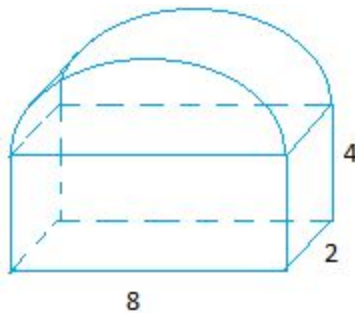
9. The surface area of sphere A is 4 times bigger than the area of sphere B. How big is the volume of sphere A compared to sphere B?

10. Graph points A (-3, 3), C(4, -3), and D( 4, 3). Name the figure and show that segment AD is perpendicular to segment CD. Write equations for all 3 segments.

11. The length of the hypotenuse of an isosceles right triangle is 10 inches. What is the length of one leg?

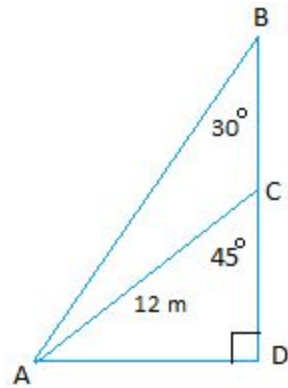
12. Find the volume and surface area of a rectangular prism 3 cm by 5 cm by 10 cm.

13. What is the volume of the figure below?

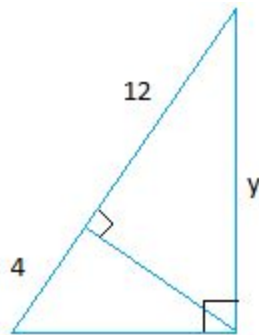


14. If the clock says 4:00 PM, what is the measure of the angle formed by the hands?

15. Use the triangle below to find the lengths of AB and CD



16. Use the triangle below to find y



17. Use the triangle below to find x

