<u>Learning Objective(s)</u>:

Main Ideas/ **Questions**

Area

Notes

Area – The total ______ INSIDE a figure.

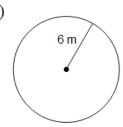
Formula:

r =

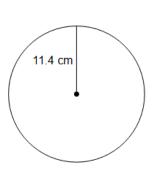
Examples

Find the area in terms of pi and a decimal rounded to the tenths.

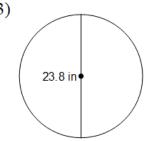
1)



2)



3)



4)

diameter = 22 km

Find the radius using the given area.

7. Area =
$$81\pi in^2$$

8) area =
$$444.9 \text{ cm}^2$$

9) A circle has a area of 24π ft^2 What is the length of the diameter?

Topic: Sector Area

Date:

Main Ideas/ Questions

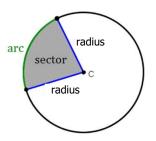
Sector Area Characteristics

Notes

Sector Area – The area of a _____ of the whole circle

Funny way to remember:

Sector Area = Pie ____



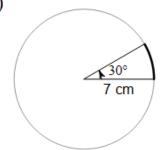
Formula:

$$\frac{Sector\ Area}{Area\ (\pi r^2)} = \frac{Central\ Angle\ (\theta)}{Whole\ Circle\ in\ degrees\ (360^\circ)}$$

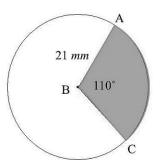
Examples

Find the sector area of the wanted sector.

1)

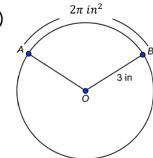


2)

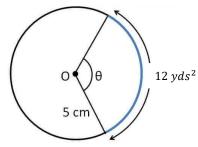


Find the angle of the given sector.

3)



4)

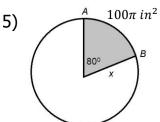


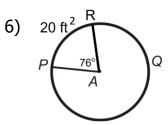
Main Ideas/ Questions

Examples

Notes

Find the radius of the given sector.





7) A circle has an arc whose measure is 80° and whose area is 88π . What is the diameter of the circle?

8) The area of a circle is $36\pi ft^2$. Find the area of the sector that has a central angle of 70° .

9) A windshield wiper is 24 inches long. In one sweep, it covers $628.32 \ in^2$. What is the angle of the windshield wiper?

10) A clock is at 7 o'clock. If the radius of the hour hand is 5 inches long, what is the area that the hour hand has covered?