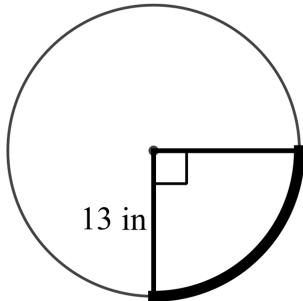


Name: _____ Period: _____

SM2 12.3 – Arc Length and Sector Area

Find the length of each highlighted arc. Write your answers in terms of π and as decimals rounded to the nearest hundredth.

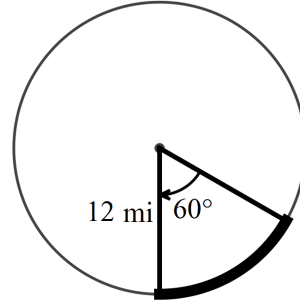
1)



Exact answer _____

Decimal answer _____

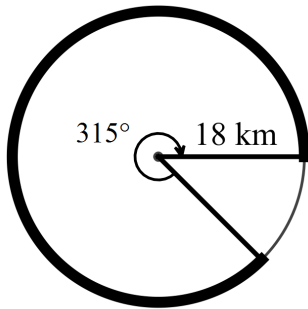
2)



Exact answer _____

Decimal answer _____

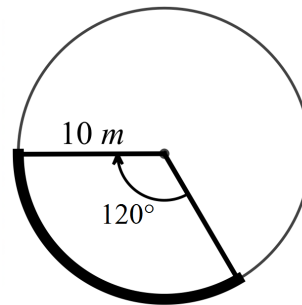
3)



Exact answer _____

Decimal answer _____

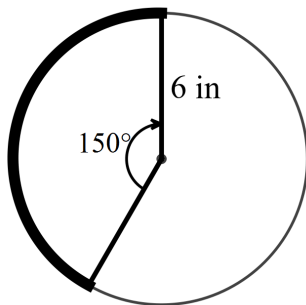
4)



Exact answer _____

Decimal answer _____

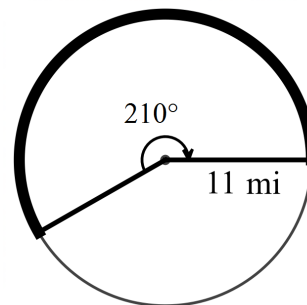
5)



Exact answer _____

Decimal answer _____

6)

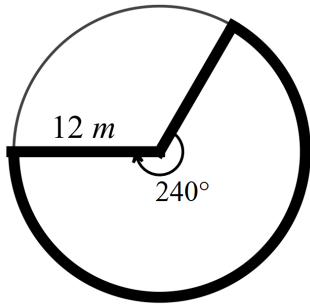


Exact answer _____

Decimal answer _____

Find the area of each highlighted sector. Write your answers in terms of π and as decimals rounded to the nearest hundredth (2 decimal places).

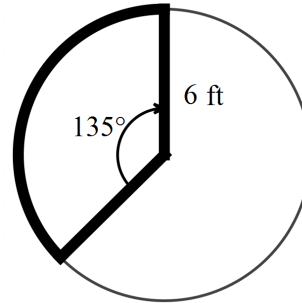
7)



Exact answer _____

Decimal answer _____

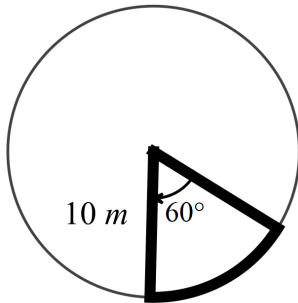
8)



Exact answer _____

Decimal answer _____

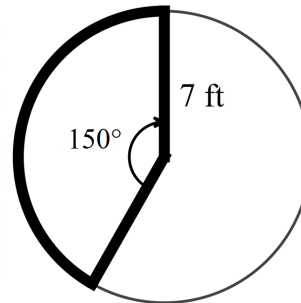
9)



Exact answer _____

Decimal answer _____

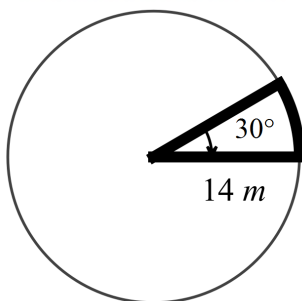
10)



Exact answer _____

Decimal answer _____

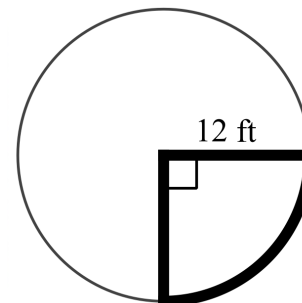
11)



Exact answer _____

Decimal answer _____

12)

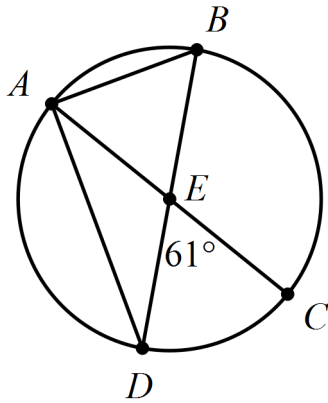


Exact answer _____

Decimal answer _____

Review from 12.1 and 12.2

13) Use the given diagram to answer each question, $m\angle DEC = 61^\circ$ (refer to 12.1 if you have questions).



Name one inscribed angle: _____
 (Make sure to use 3 letters when naming your angle!!)

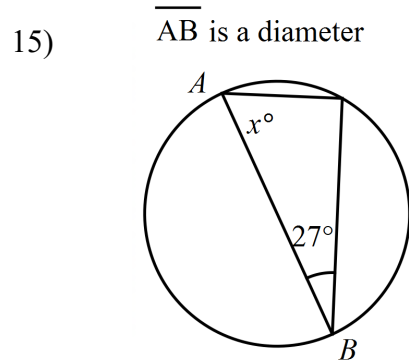
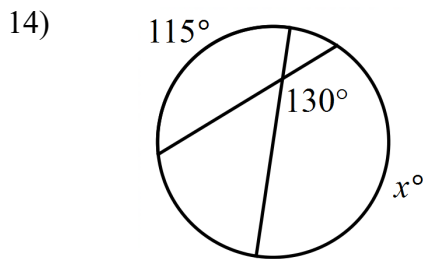
Name one central angle: _____
 (Make sure to use 3 letters when naming your angle!!)

$m\angle BEC =$ _____

$m\angle DC =$ _____

$m\angle DAC =$ _____

Find the value of x in each figure (refer to 12.2 if you have questions)



16) Find value of x . Assume that segments which appear to be tangent to the circle are tangent to the circle. If necessary, round your answers to the nearest tenth.

