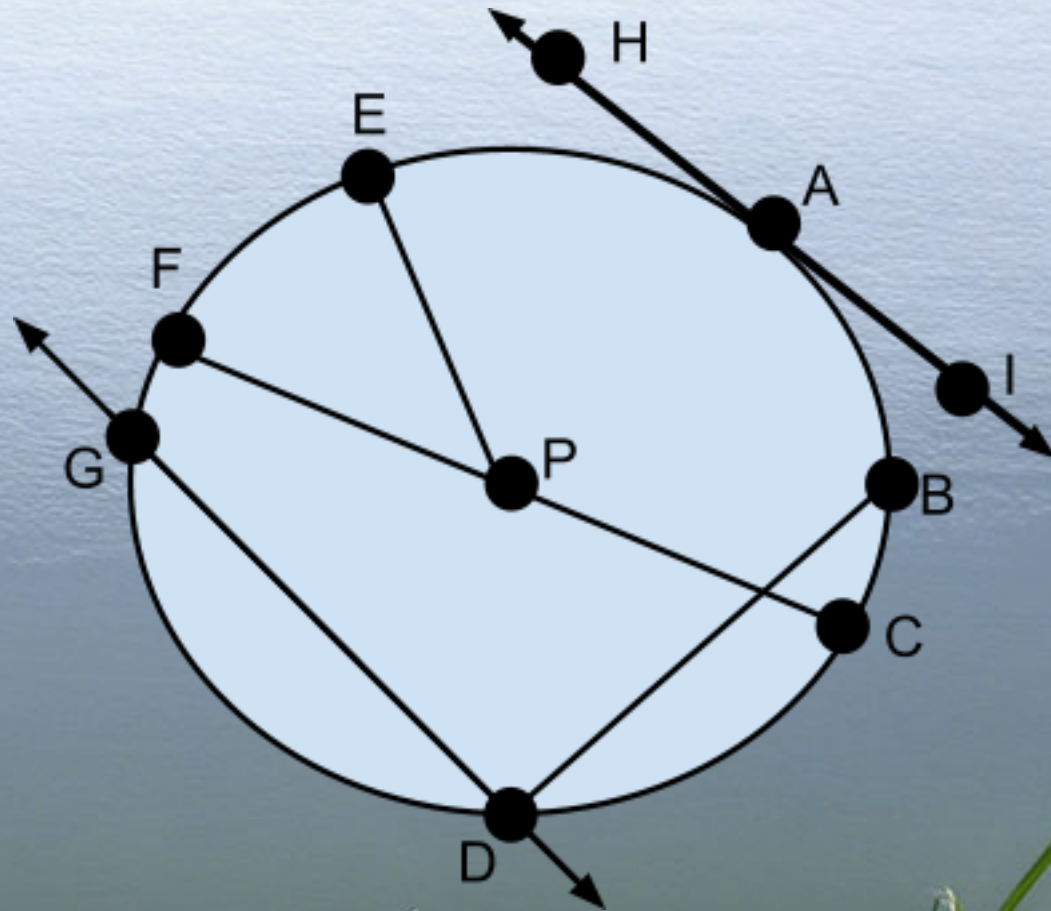


# Circles Project

By: Matt and Adam

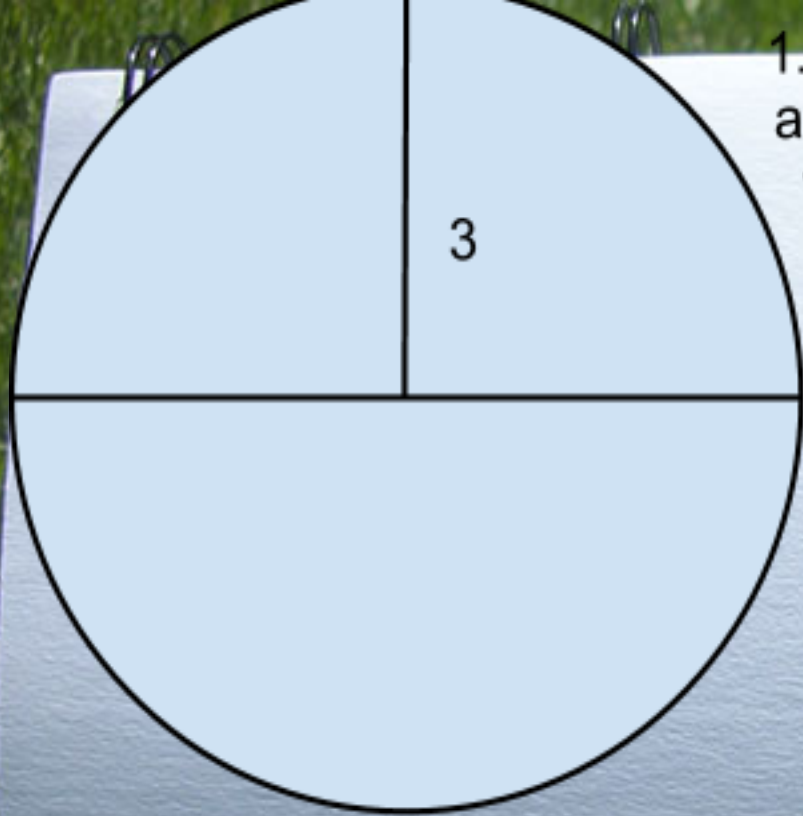
# Vocabulary

1. What is FP?
2. What is GD?
3. What is FC?
4. What is A?
5. What is HI?
6. What is BD?
7. What is P?



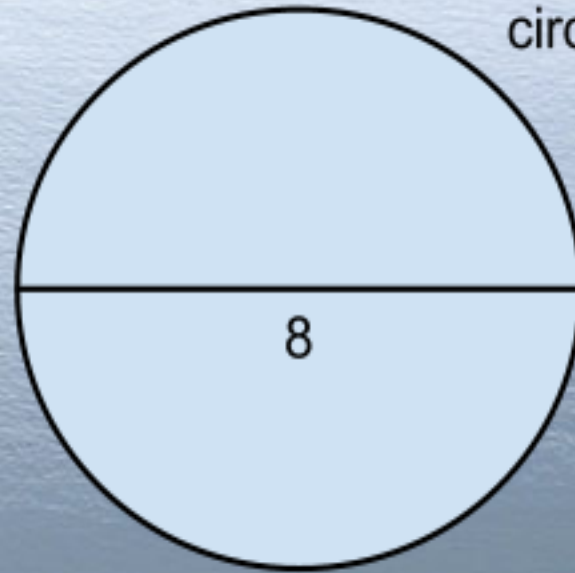
# Vocabulary

1. Radius
2. Secant
3. Diameter
4. Point of tangency
5. Tangent
6. Chord
7. Center



1.) Find the approximate area and circumference with the given radius.

2.) Find the approximate area and circumference with the given circumference

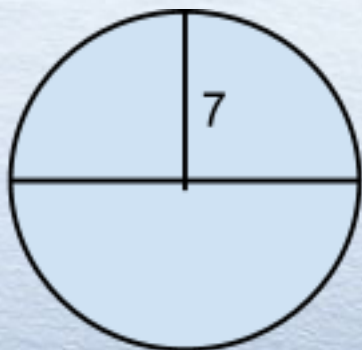


3.) Find the approximate area with a circumference of 25

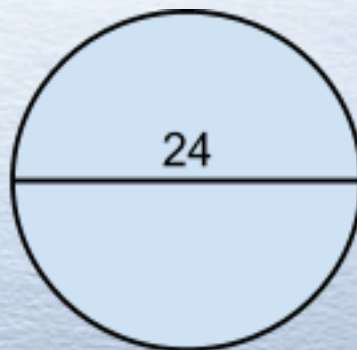
4.) Find the approximate circumference with an area of 78.5

# Answers

- 1.) Circumference = 18.84 and Area= 28.26
- 2.) Area= 50.24 and Circumference= 25.12
- 3.) Area= 49.76
- 4.) Circumference=31.4



Find the exact area and circumference of the circle with a given radius.



Find the exact area and circumference of the circle with a given diameter.

Find the exact area given the circumference of  $18\pi$ .

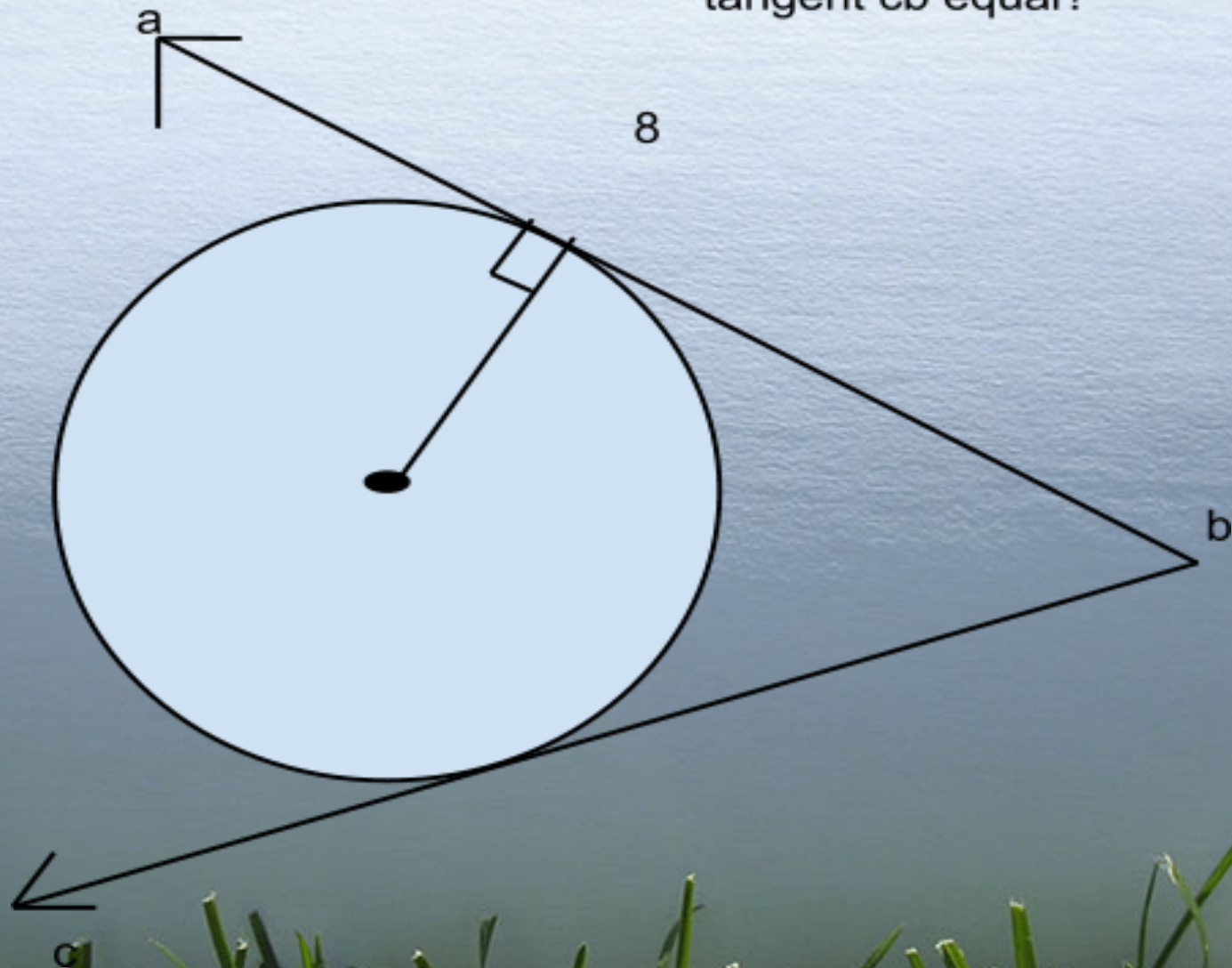
Find the exact circumference given the area of  $169\pi$ .

## Answers

- 1.) Area=  $49\pi$  and Circumference=  $14\pi$
- 2.) Area=  $144\pi$  and Circumference=  $24\pi$
- 3.) Area=  $81\pi$
- 4.) Circumference=  $26\pi$

1. is ab a  
tangent?

2. If tangent ab is equal  
to 8, then what does  
tangent cb equal?





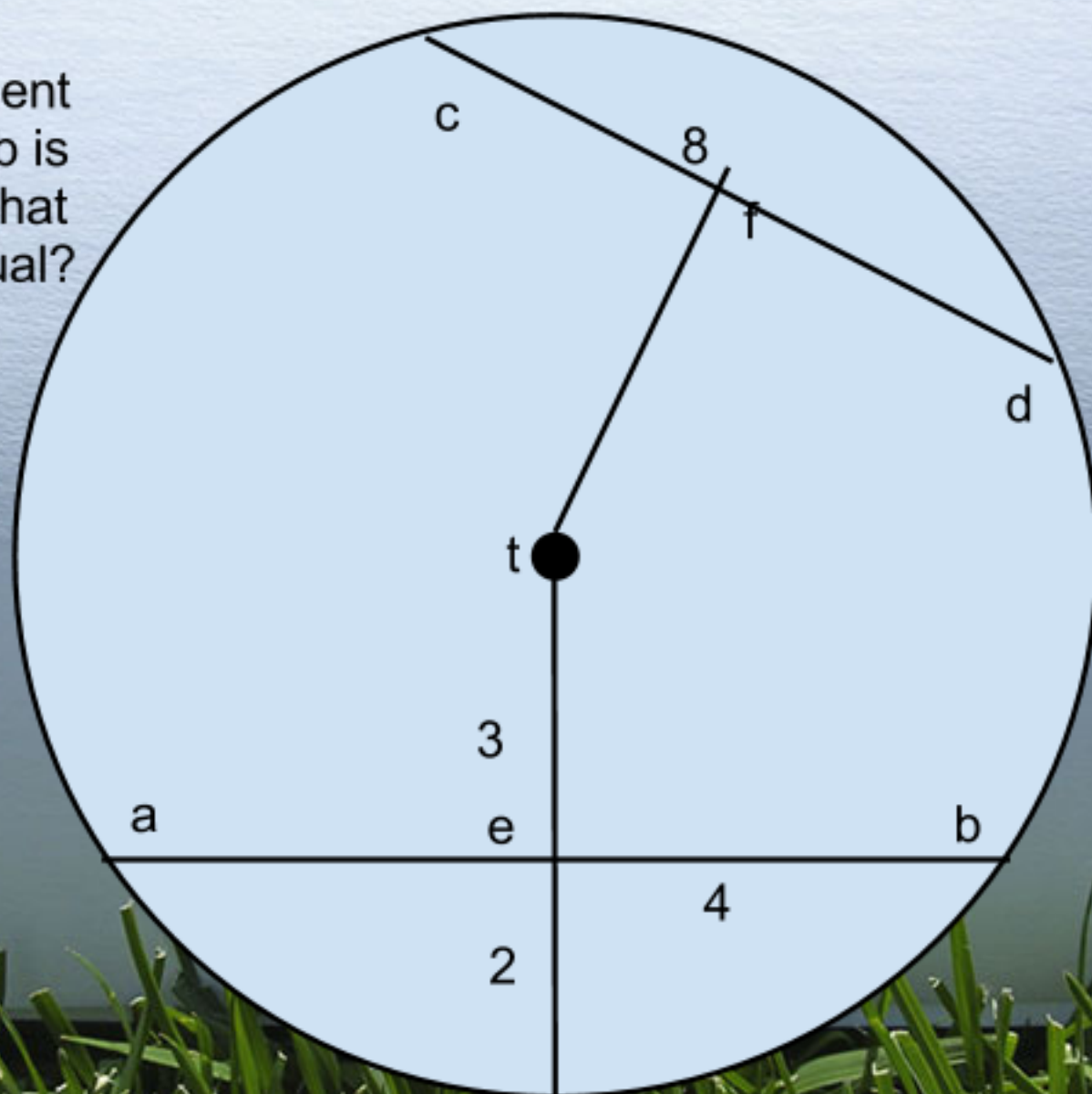
answers

1. yes
2. 8

1. Find the radius

2.  $ab$  is congruent to  $cd$  and arc  $ab$  is equal to 15. What does arc  $cd$  equal?

3. chord  $ab$  is congruent to chord  $cd$ . What does  $tf$  equal?

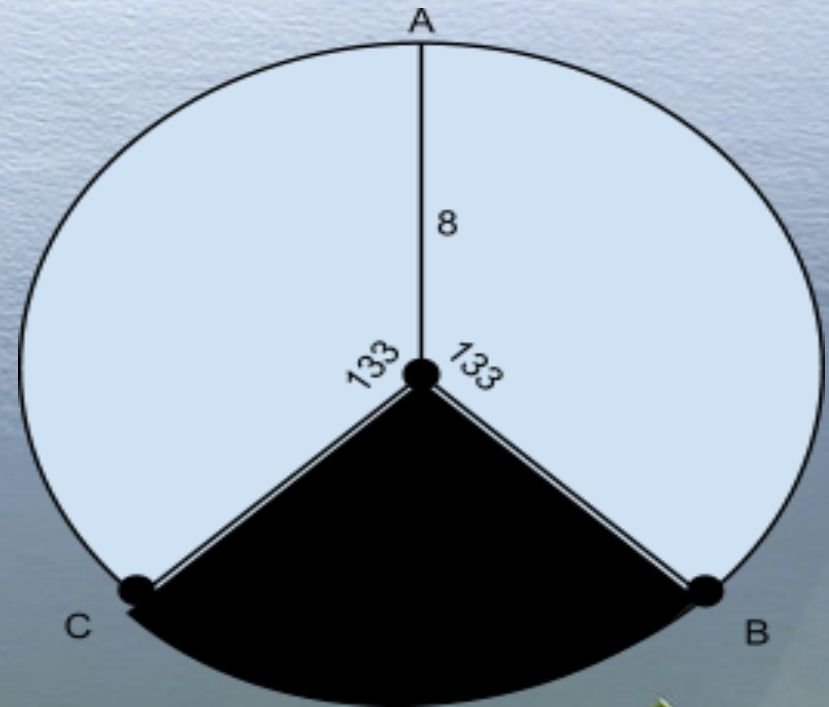


answers

- 1.) 5
- 2.) 15
- 3.) 3

## Area of a Sector and Arc Lengths

- 1.) Find the exact area of sector BC
- 2.) Find the approximate area of sector BC
- 3.) Find the exact arc length of arc AB
- 4.) Find the approximate arc length of arc AB



## Answers for slide 12

1.) The exact area of sector BC =  
 $1,064 \text{ over } 45 \text{ pie}$

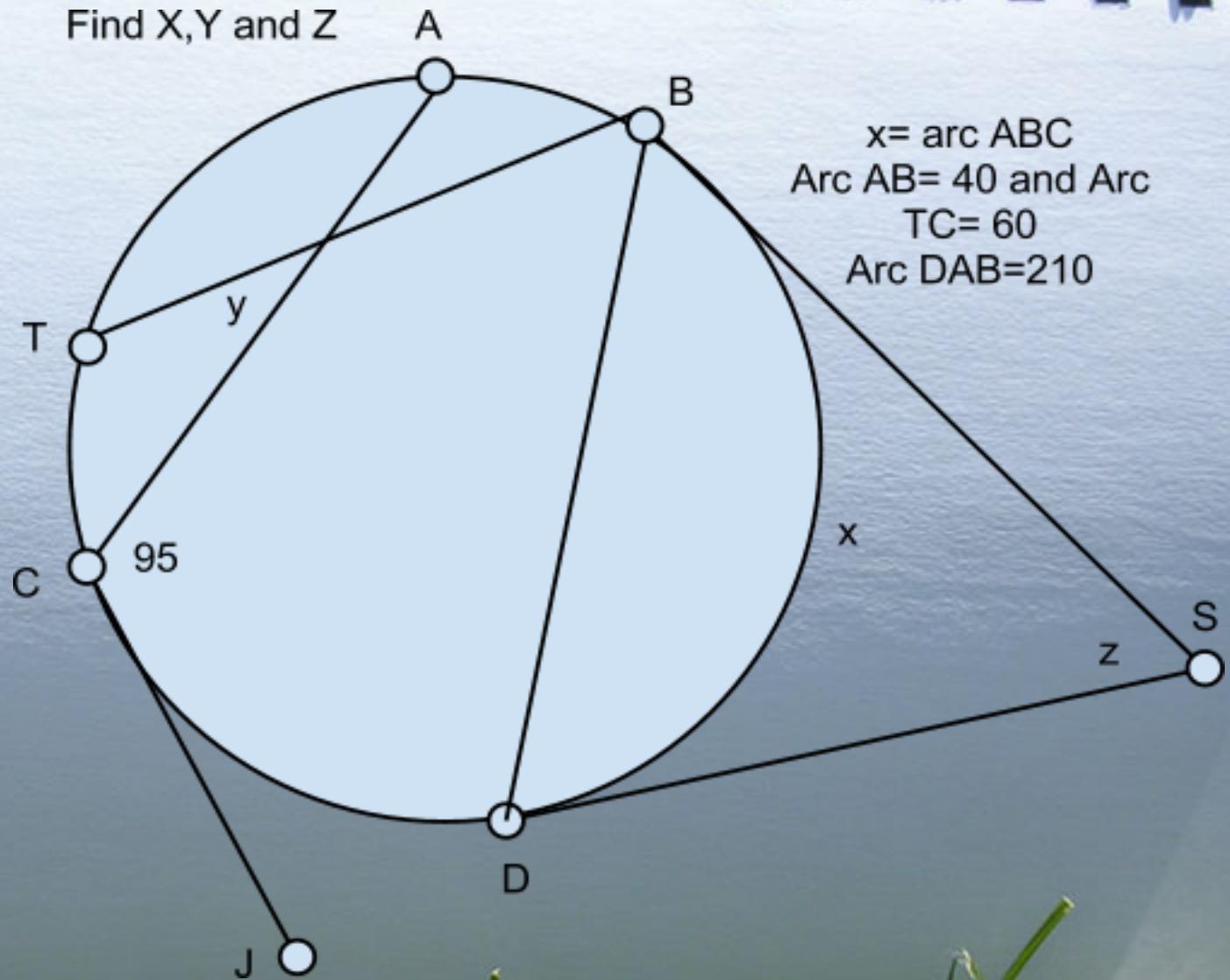
2.) The approximate area of sector  
BC is 74.24

3.) The exact length of arc AB =  $266$   
over 45 pie

4.) The approximate length of arc  
AB = 18.56

# Special Angles in a Circle

Find X, Y and Z



$x = \text{arc } ABC$   
Arc AB = 40 and Arc TC = 60  
Arc DAB = 210

## Answers for Slide14

1.)  $x = 240$

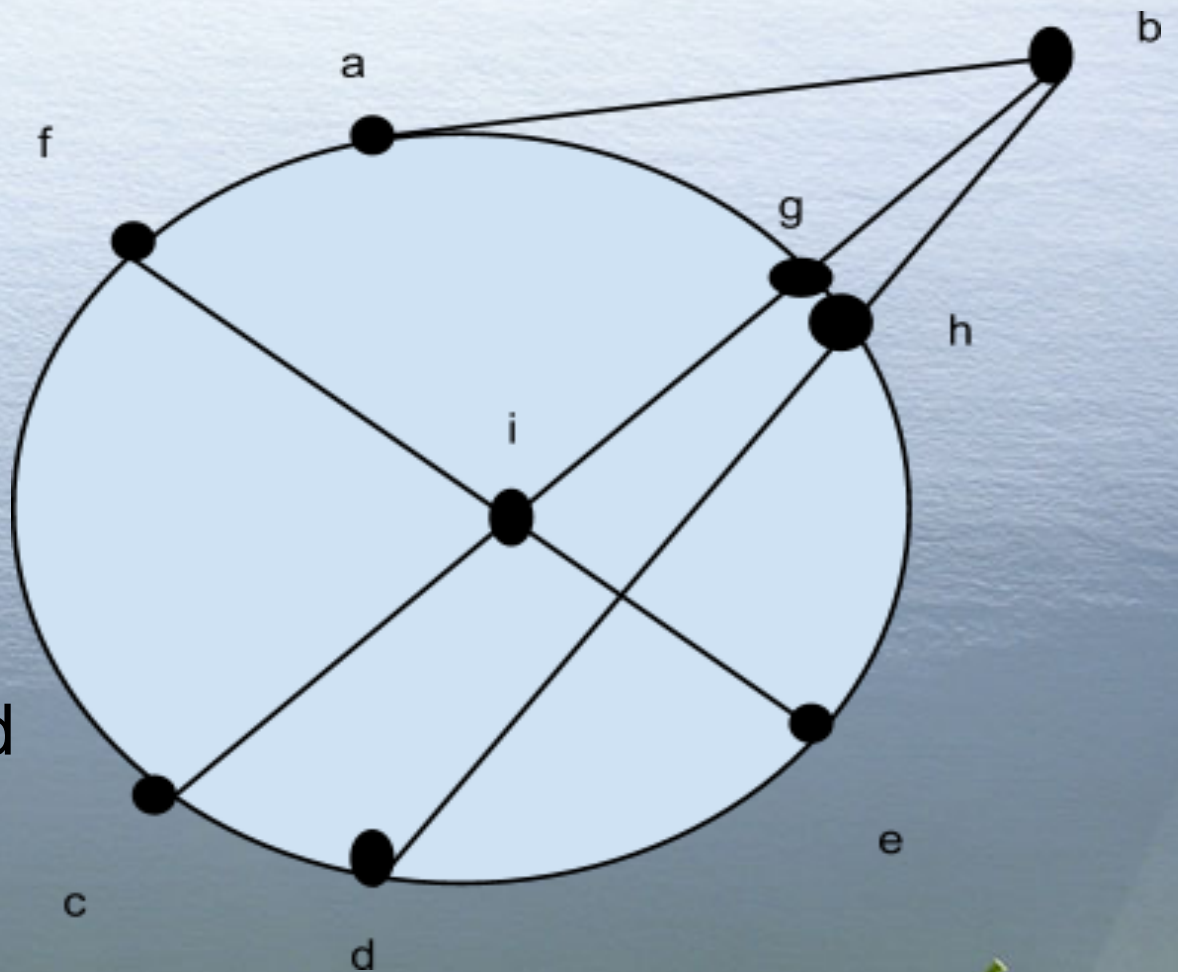
2.)  $y = 190$

3.)  $z = 30$

1. If  $ab$  is equal to 7 and  $bg$  6, find  $cg$

2. if  $fi$  is equal to 4,  $ie$  is equal to 6, and  $gi$  is equal to 3, find  $ic$ .

3. if  $bg=6$ ,  $gc=11$ , and  $bh=6$  find  $hd$





round to  
nearest  
hundred  
h

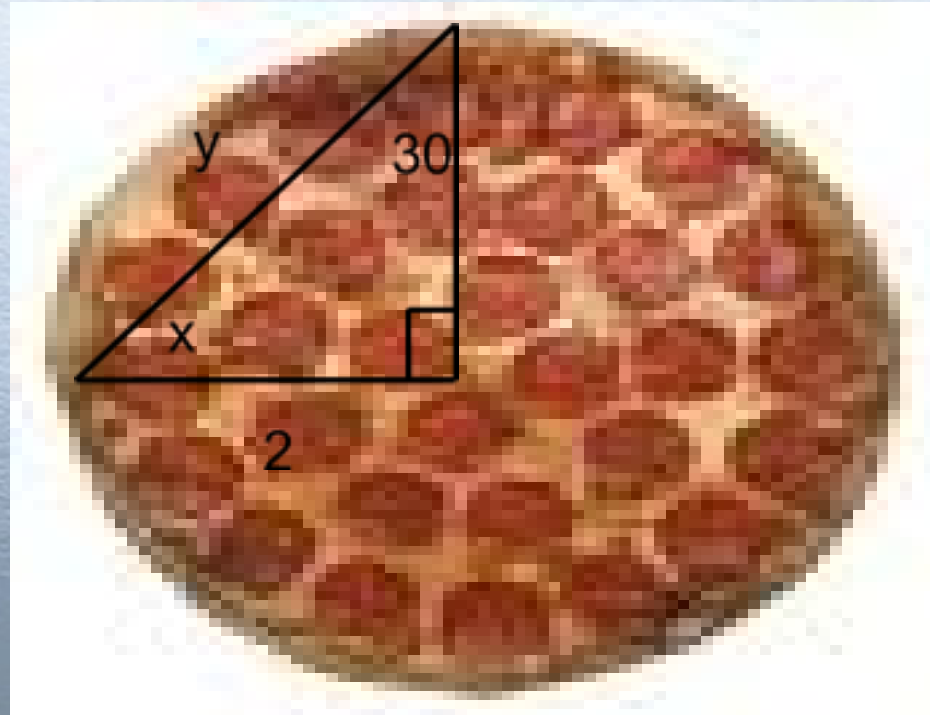
answers to slide 15

1. 2.17

2. 8

3. 5

find  $x$  and  $y$   
 $y$  is the side (crust)  
across from  $x$



answers to slide 17  
 $x=60$  degrees  
 $y=4$