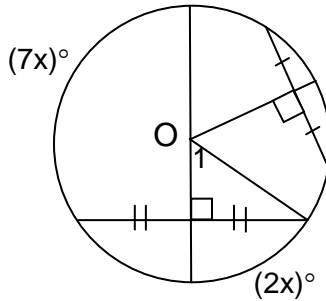Name _____

Period _____   Date _____

Directions: All work must be shown to receive full credit.   Figures are not drawn to scale.
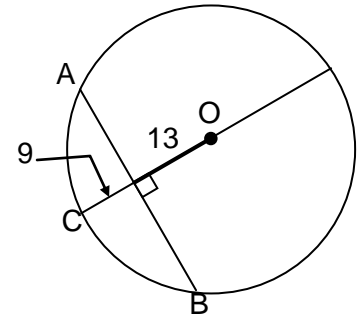O is the center of the circle. Leave answers as exact or round to three decimal places
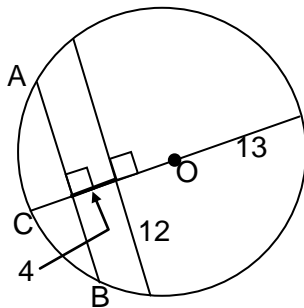
1. Find m ABC .
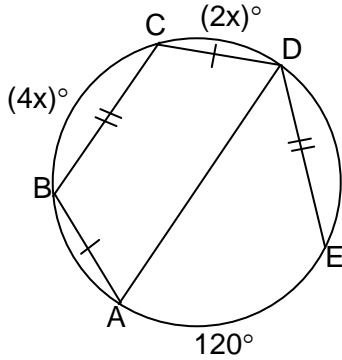
2. Find m $\angle$ 1.
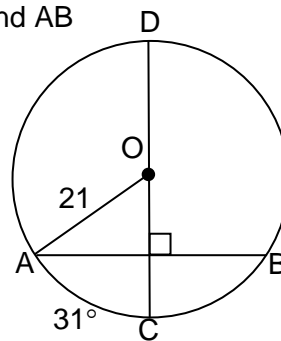

3. Find $m\angle COB$ and mAB

4. Find AB.

5. Find AB

6. Find x and y and m AC and m∠BOC.
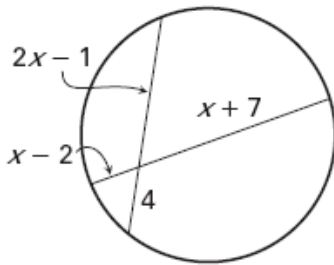
AD = 17, CD = x + y, m AB = 3x, m BC = 44-2y
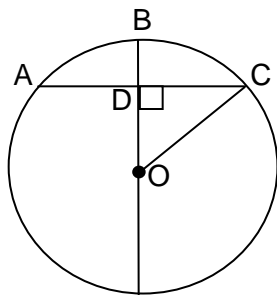
7. Two circles intersect and have a common chord 24cm long. The centers are 21cm apart. If the radius of one circle is 13 cm, find the radius of the other circle.

8. Find m BCD

C (2x)°
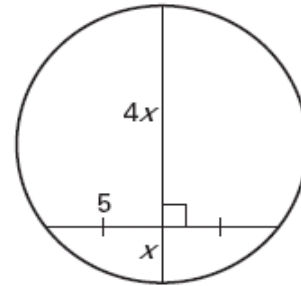D
(3x)°
B
O
E
A
150°
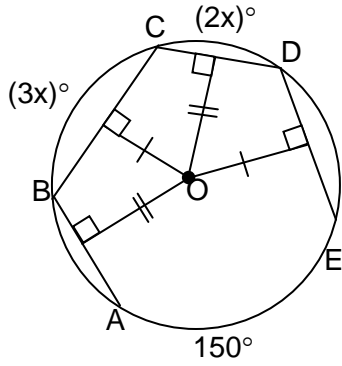
For #9-10, Find the value of x and round to the thousandth if necessary.
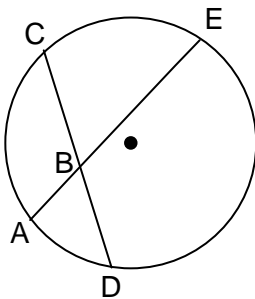
9.

2x − 1
x + 7
x − 2
4

10.

4x
5
x

11. If AE=35, AB=10, and CB=BD, Find the length of CB.

C
E
B
A
D

12. Two chords, $\overline{DF}$ and $\overline{EG}$, intersect at point H. If segments $\overline{EH}$ and $\overline{GH}$ each measure 6 inches and $\overline{FH}$ measures 3 inches, what is the measure of segment $\overline{DH}$. Draw a picture!!