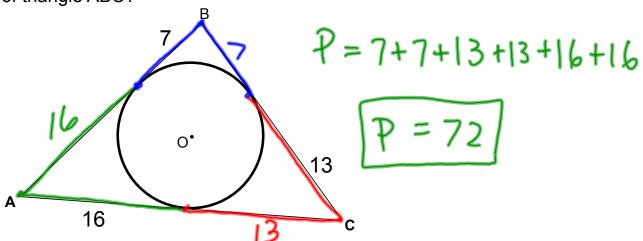
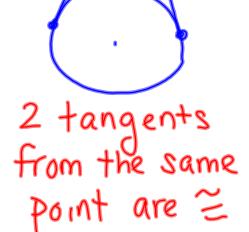
Do-now: If AB, BC, and AC are all tangent to circle O, what is the perimeter

of triangle ABC?

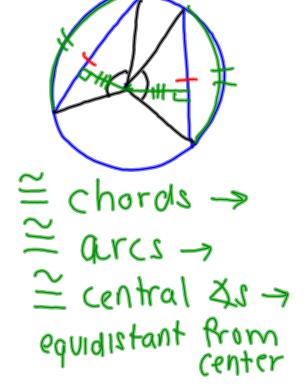


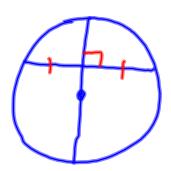
TANGENT PROPERTIES



a radius and a tangent are L

CHORD PROPERTIES





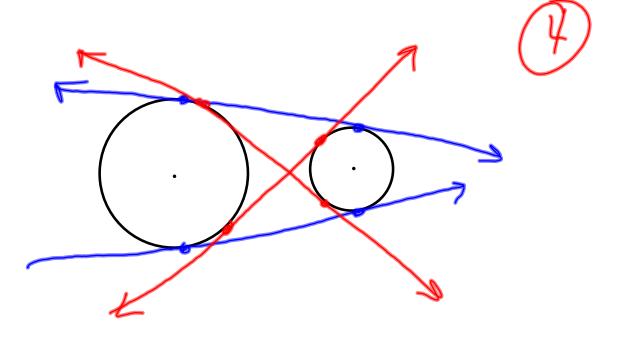
If a diameter is

I to a chord

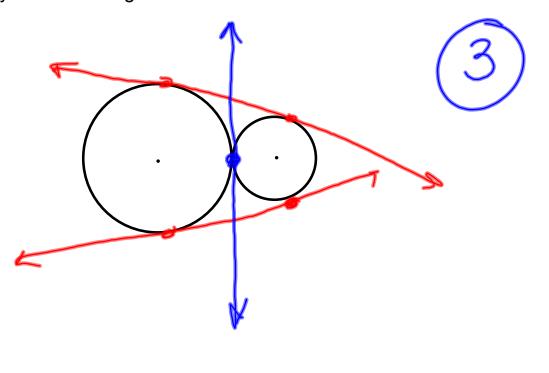
Then It bisects

The Chord.

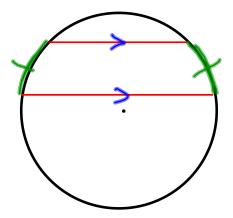
How many common tangent lines can be drawn to the 2 circles below?

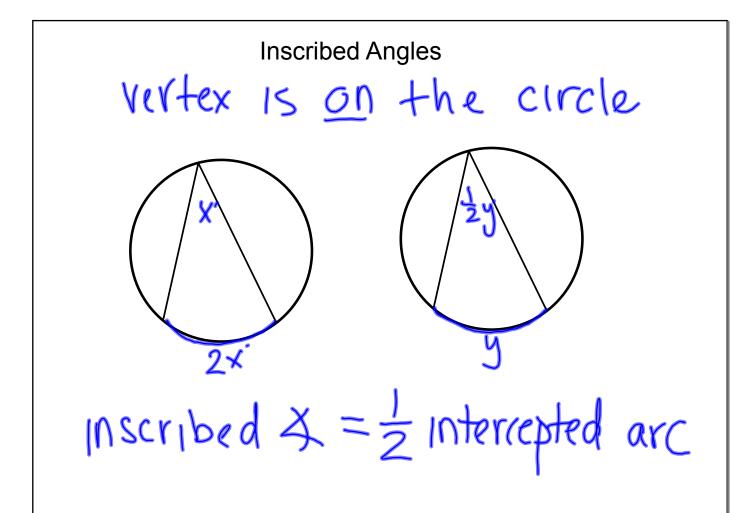


How many common tangent lines can be drawn to the 2 circles below?

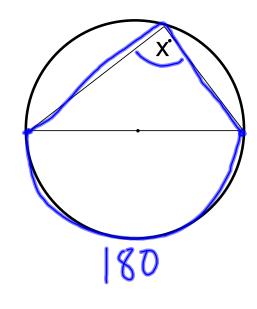


Parallel chords Intercept = arcs



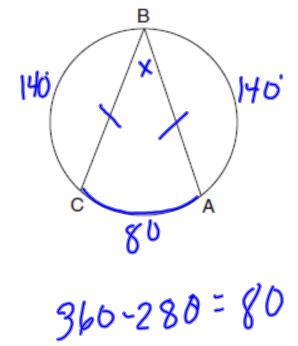


What is the measure of x?



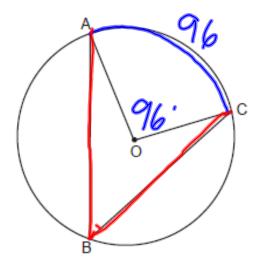
$$X = \frac{5}{1}(180)$$

If chords \overline{BA} and \overline{BC} are congruent and $\overline{mBC} = 140$, what is $\overline{m} \angle B$?



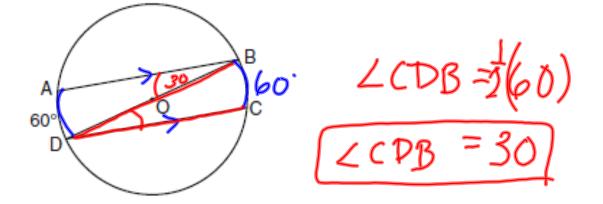
$$\angle B = \frac{1}{2}(80)$$
 $\angle B = 40$

In the accompanying diagram of circle O, AB and BC are chords and $m\angle AOC = 96$. What is $m\angle ABC$?



$$\angle ABC = \frac{1}{2}(96)$$

In the diagram of circle O below, chords \overrightarrow{AB} and \overrightarrow{CD} are parallel, and \overrightarrow{BD} is a diameter of the circle. If $\overrightarrow{mAD} = 60$, what is $\overrightarrow{m} \angle CDB$?



CLASSWORK: Page 681 #s 5, 6, 8, 13, Page 685 #s 51 - 53

ANSWERS

8)
$$a = 54$$
, $b = 30$, $c = 96$

13)
$$a = 50$$
, $b = 90$, $c = 90$

51)
$$x = 17.3$$
 52) $x = 34.6$ 53) $x = 17.5$

