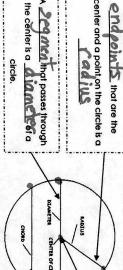
Example 2: The following chords are equidistant from the center of the circle.

b) Solve for x.

X=545

SWBAT solve for unknown variables using theorems about chords and arcs of circles.

center and a point on the circle is a endpoints that are the Any segment with



CENTER OF CINCLE This point names the circle.

The given point is called the

1R=13.5+13.5

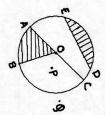
a) What is the length of RS?

Any segment with end both that are on a circle is called a

Example 1: Name the circle, a radius, a chord, and a diameter of the circle.



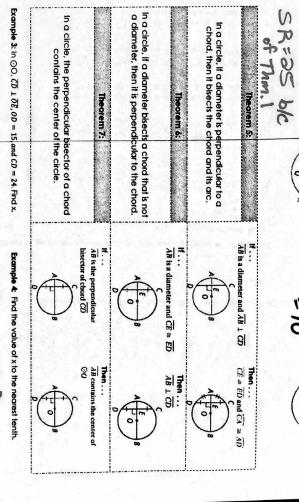
Diameter: ED

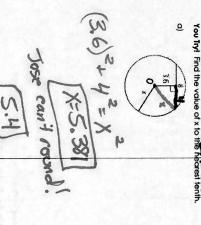


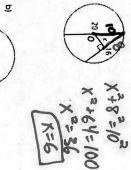
Chord: ED Diameter. AC

Since a diameter is composed of two radii, then d = 2r and r = d/2

Within a circle or in congruent circles, congruent chards are equidistant from the center (or centers). If $\overline{AB} \cong \overline{CD}$, then $OE \cong OF$. Converse Theorem 2: Within a circle or in congruent central angles. If $\overline{AB} \cong \overline{CD}$, then $\angle AOB \cong \angle COD$. Converse Theorem 3: Within a circle or in congruent central angles. If $\overline{AB} \cong \overline{CD}$, then $\angle AOB \cong \angle COD$. Converse Theorem 4: Converse Theorem 4: Within a circle or in congruent circles, congruent chards have congruent central angles. If $\overline{AB} \cong \overline{CD}$, then $\angle AOB \cong \angle COD$. Converse Theorem 4: Within a circle or in congruent circles, congruent arcs have congruent circles, congruent congruent ci
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(1x)+6=R2 41=25=144 1×= 108 X= V450 \$ 20.8