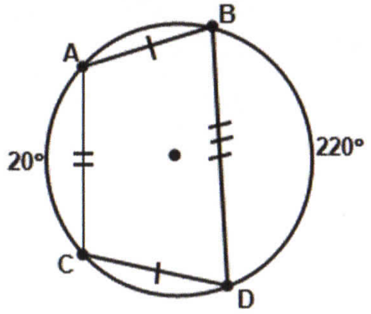
ARCS AND CHORDS

Theorem – In a circle (or congruent circles), two minor arcs are congruent if and only if their corresponding chords are congruent.

a) Which two chords are congruent? ___________

b) What are the measures of their arcs? ___________



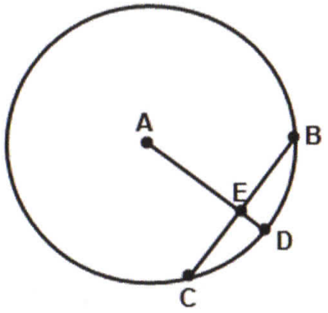
Theorem – In a circle, if a diameter (or radius) is perpendicular to a chord, then it bisects the chord and its arc.

AD ⊥ BC, AE = 7.5, and the radius is 8.5. Find the following.

ED = _____ EB = _____

AC = _____ EC = _____

AB = _____ BC = _____

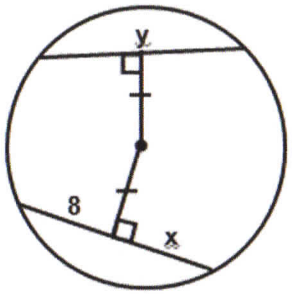


Theorem – In a circle (or congruent circles), two chords are congruent if and only if they are equidistant from the center.

Find the values of x and y.

x = _______

y = _______



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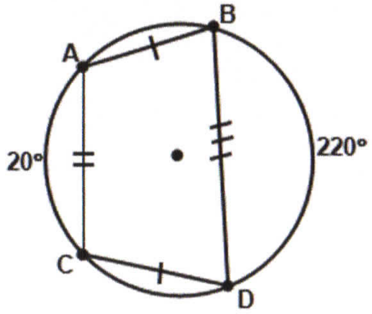

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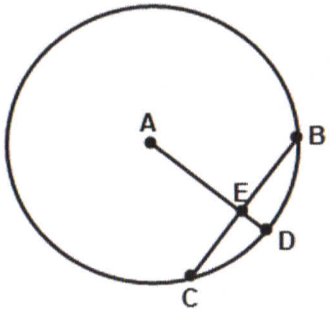

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