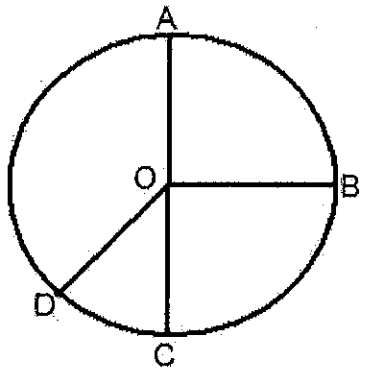
Name:_____ CENTRAL ANGLES DAY 2

1. In a circle O, m∠AOB = 87°, m∠BOC = 93°, and m∠COD = 35°. Find the measure of each of the following:

a) ∠DOA_____ b) $\widehat{AB}$_____ c) $\widehat{BC}$_____ d) $\widehat{ABC}$_____

e) $\widehat{DC}$_____ f) $\widehat{AD}$_____ g) $\widehat{BCD}$_____ h)$\widehat{CDB}$ _____

i) $\widehat{DBC}$_____

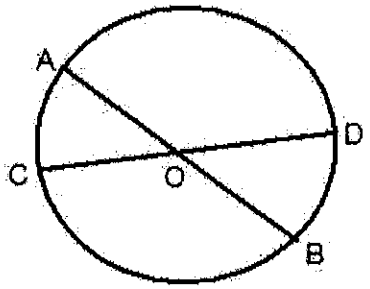


2. Lines AB and CD intersect at O, the center of the circle, and m∠AOC = 25°. Find the measure of each of the following:

a) ∠COB_____ b) ∠BOD_____ c) ∠DOA_____

d)$\widehat{AC}$ _____ e) $\widehat{BC}$_____ f) $\widehat{BD}$_____ g) $\widehat{AB}$_____

h) $\widehat{ACD}$_____ i) $\widehat{CBA}$_____



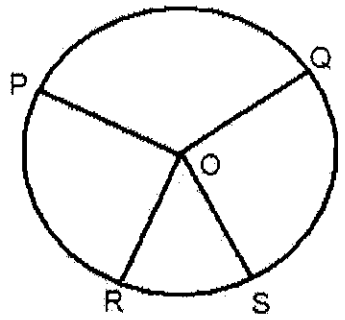
Name:_____ CENTRAL ANGLES DAY 2

3. In circle O, m∠POQ = 100°, m∠ROS = 40° and ∠POR ≅ ∠QOS. Find the measure of each of the following:

a) ∠QOS_____ b) ∠QOR_____ c) $\widehat{PQ}$_____ d) $\widehat{RS}$_____

e) $\widehat{SQ}$_____ f) $\widehat{PQ}$_____ g) $\widehat{PQS}$_____ h) $\widehat{QR}$_____

i) $\widehat{QPR}$_____



4. In circle O, ∠AOC and ∠COB are supplementary. If m∠AOC = (2x)°, m∠COB = (x + 90)° and m∠AOD = (3x + 10)°, find:

a) x_____ b) m∠AOC_____ c) m∠COB_____

d) m∠AOD_____ e) m∠DOB_____ f) m $\widehat{AC}$_____

g) m$\widehat{BC}$_____ h) m$\widehat{AB}$_____

i) m$\widehat{AD}$_____ j) m$\widehat{BD}$_____ k) m$\widehat{ADC}$_____

l) m$\widehat{BCD}$_____