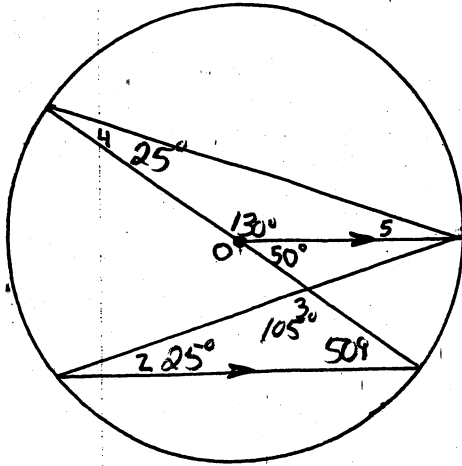


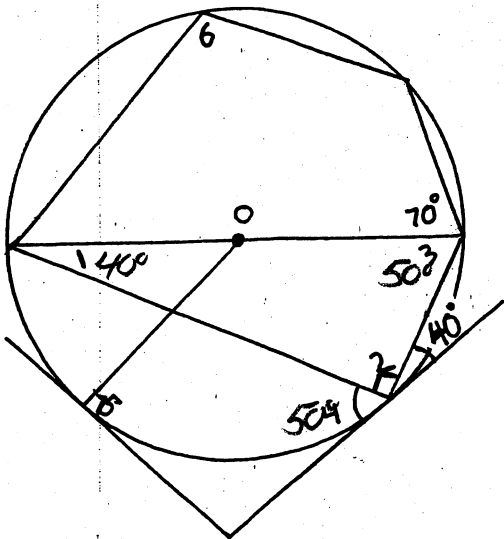
DETERMINE THE MEASURE OF EACH ANGLE. STATE REASONS. LIST THE ANGLES IN YOUR ORDER. (O is the centre)

①

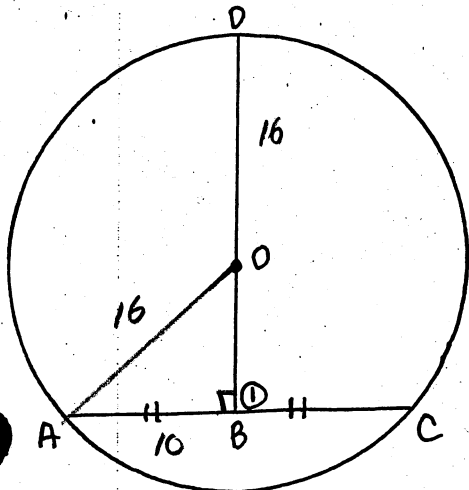


REASON

$\angle =$	REASON
$\angle 1 = 50^\circ$	Alternate Interior \angle 's are =
$\angle 2 = 25^\circ$	Ins $\angle = \frac{1}{2}$ central \angle
$\angle 3 = 105^\circ$	\angle sum of $\Delta = 180^\circ$
$\angle 4 = 25^\circ$	Ins \angle 's on same arc
$\angle 5 = 25^\circ$	\angle sum of $\Delta = 180^\circ$



$\angle 1 = 40^\circ$	Tangent Chord Theorem
$\angle 2 = 90^\circ$	Insc \angle on a diameter
$\angle 3 = 50^\circ$	\angle sum of $\Delta = 180^\circ$
$\angle 4 = 50^\circ$	Tangent / Chord or Supp \angle 's
$\angle 5 = 90^\circ$	Tangent / Radius Property
$\angle 6 = 110^\circ$	Cyclic Quad.



$AC = 20$, $OD = 16$

$\angle 1 = 90^\circ$	Chord Property
$OA = 16$	All radii are equal
$OB = 12.49$	$\sqrt{16^2 - 10^2} = 12.49$