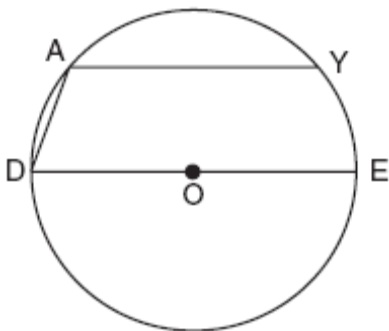


G.G.52: Investigate, justify, and apply theorems about arcs of a circle cut by two parallel lines

1. 060603b, P.I. G.G.52

In the accompanying diagram of circle O , chord \overline{AY} is parallel to diameter \overline{DOE} , \overline{AD} is drawn, and $m\widehat{AD} = 40$.



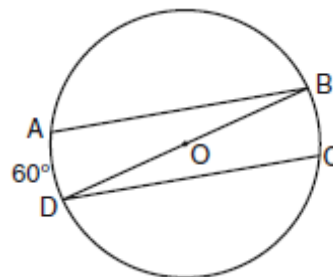
What is $m\angle DAY$?

- [A] 130 [B] 150 [C] 110 [D] 90

NAME: _____

2. 060906ge, P.I. G.G.52

In the diagram of circle O below, chords \overline{AB} and \overline{CD} are parallel, and \overline{BD} is a diameter of the circle.

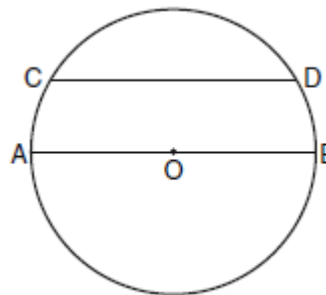


If $m\widehat{AD} = 60$, what is $m\angle CDB$?

- [A] 20 [B] 30 [C] 120 [D] 60

3. 080904ge, P.I. G.G.52

In the diagram of circle O below, chord \overline{CD} is parallel to diameter \overline{AOB} and $m\widehat{AC} = 30$.



What is $m\widehat{CD}$?

- [A] 120 [B] 100 [C] 60 [D] 150

G.G.52: Investigate, justify, and apply theorems about arcs of a circle cut by two parallel lines

[1] C _____

[2] B _____

[3] A _____