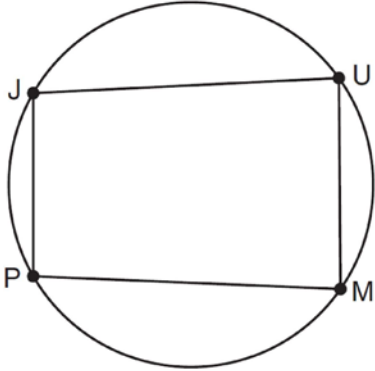


G.C.A.3: Inscribed Quadrilaterals

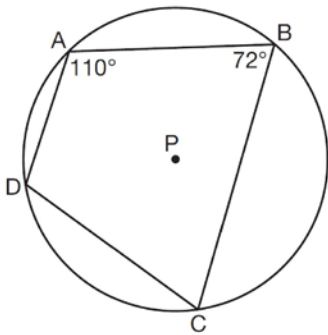
- 1 In the diagram below, quadrilateral $JUMP$ is inscribed in a circle..



Opposite angles J and M must be

- 1) right
- 2) complementary
- 3) congruent
- 4) supplementary

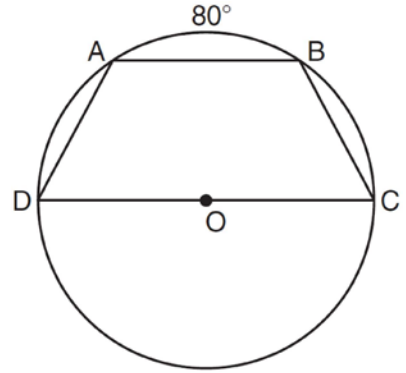
- 2 In the diagram below, quadrilateral $ABCD$ is inscribed in circle P .



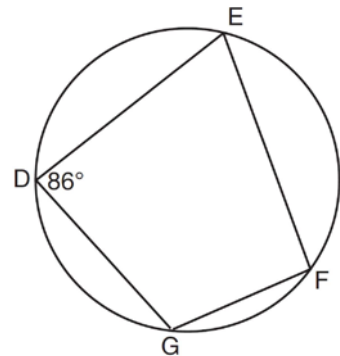
What is $m\angle ADC$?

- 1) 70°
- 2) 72°
- 3) 108°
- 4) 110°

- 3 In the diagram below, trapezoid $ABCD$, with bases \overline{AB} and \overline{DC} , is inscribed in circle O , with diameter \overline{DC} . If $m\widehat{AB} = 80$, find $m\widehat{BC}$.

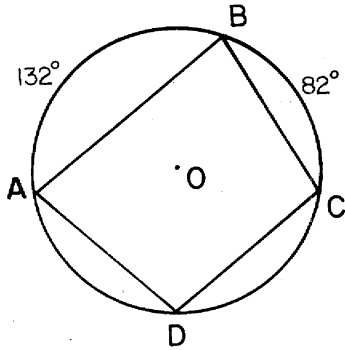


- 4 As shown in the diagram below, quadrilateral $DEFG$ is inscribed in a circle and $m\angle D = 86$.



Determine and state $m\widehat{GFE}$. Determine and state $m\angle F$.

- 5 In the accompanying diagram, quadrilateral $ABCD$ is inscribed in circle O . If $m\widehat{AB} = 132$ and $m\widehat{BC} = 82$, find $m\angle ADC$.



**G.C.A.3: Inscribed Quadrilaterals
Answer Section**

1 ANS: 4 REF: 011124ge

2 ANS: 3 REF: 081515geo

3 ANS:

$$\frac{180 - 80}{2} = 50$$

REF: 081129ge

4 ANS:

$$86^\circ \cdot 2 = 172^\circ \quad 180^\circ - 86^\circ = 94^\circ$$

REF: 081432ge

5 ANS:

107

REF: 088408siii