Quadrilaterals Inscribed In a Circle
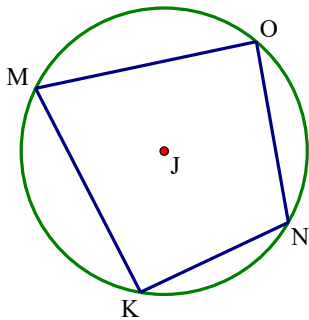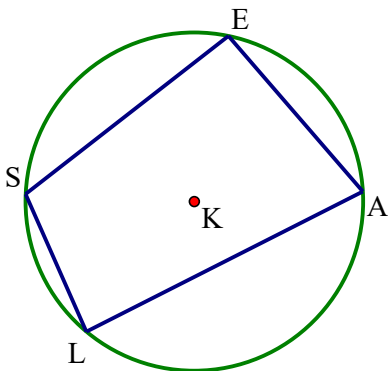
1. In the diagram below, quadrilateral *SBRE* is inscribed in the circle. If $m\angle BRE = 91º$ and $m\angle SBR = 40º$, find $m\angle BSE$ and $m\angle SER$
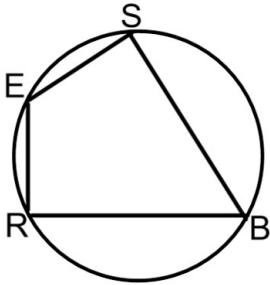
2. In the diagram below, quadrilateral MONK is inscribed in circle J, $m\angle KMO = 48º$ and $m\angle MON = 80º$. Find the measures of $m\angle KNO$ and $m\angle MKN$.
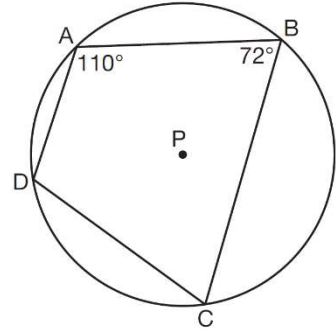
3. In the diagram below, quadrilateral SEAL is inscribed in circle K, $\overline{SE} \perp \overline{EA}$ and $m\angle EAL = 68º$. Find the measures of $m\angle SLA$ and $m\angle ESL$.
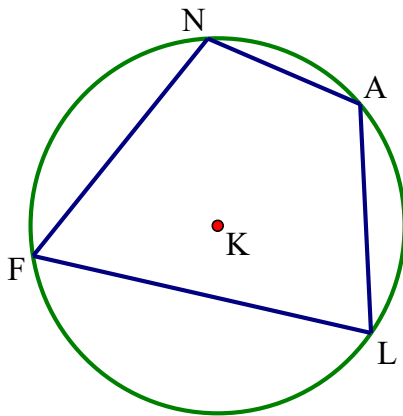
4. In the diagram below, quadrilateral $ABCD$ is inscribed in circle P.

What is $m\angle ADC$?
1) 70°
2) 72°
3) 108°
4) 110°

5. In the diagram below, quadrilateral FLAN is inscribed in circle K, $m\angle FNA = 9x + 10$ and $m\angle FLA = 6x + 20$. Find the measures of $m\angle FLA$.

6. Quadrilateral $ABCD$ is inscribed in circle O, as shown below.

If $m\angle A = 80°$, $m\angle B = 75°$, $m\angle C = (y + 30)°$, and $m\angle D = (x - 10)°$, which statement is true?
1) $x = 85$ and $y = 50$
2) $x = 90$ and $y = 45$
3) $x = 110$ and $y = 75$
4) $x = 115$ and $y = 70$