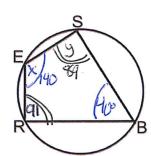
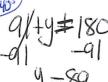
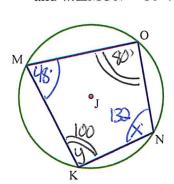
Quadrilaterals Inscribed In a Circle

1. In the diagram below, quadrilateral SBRE is inscribed in the circle. If $m \angle BRE = 91^{\circ}$ and $m \angle SBR = 40^{\circ}$, find $(m \angle BSE)$ and $m \angle SER$





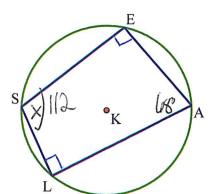
2. In the diagram below, quadrilateral MONK is inscribed in circle J, $m \angle KMO = 48^{\circ}$ and $m \angle MON = 80^{\circ}$. Find the measures of $m \angle KNO$ and $m \angle MKN$.



$$X+1/8=180$$
 $-80-80$
 $X=132$ $Y=180$
 $X=132$ $Y=180$

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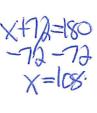
3. In the diagram below, quadrilateral SEAL is inscribed in circle K, $\overline{SE} \perp \overline{EA}$ and $m\angle EAL = 68^{\circ}$. Find the measures of $m\angle SLA$ and $m\angle ESL$.

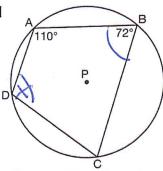


4. In the diagram below, quadrilateral ABCD is inscribed in circl

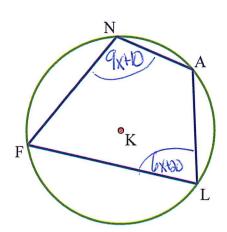
What is $m\angle ADC$?

- 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 $m \angle FLA$.



9x410+6x420=180 15x +30=180

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

If $m\angle A = 80^\circ$, $m\angle B = 75^\circ$, $m\angle C = (y + 30)^\circ$, and $m\angle D = (x - 10)^\circ$, which statement is true?

- 1) x = 85 and y = 50
- 2) x = 90 and y = 45
- 3) x = 110 and y = 75
- 40x = 115 and y = 70

