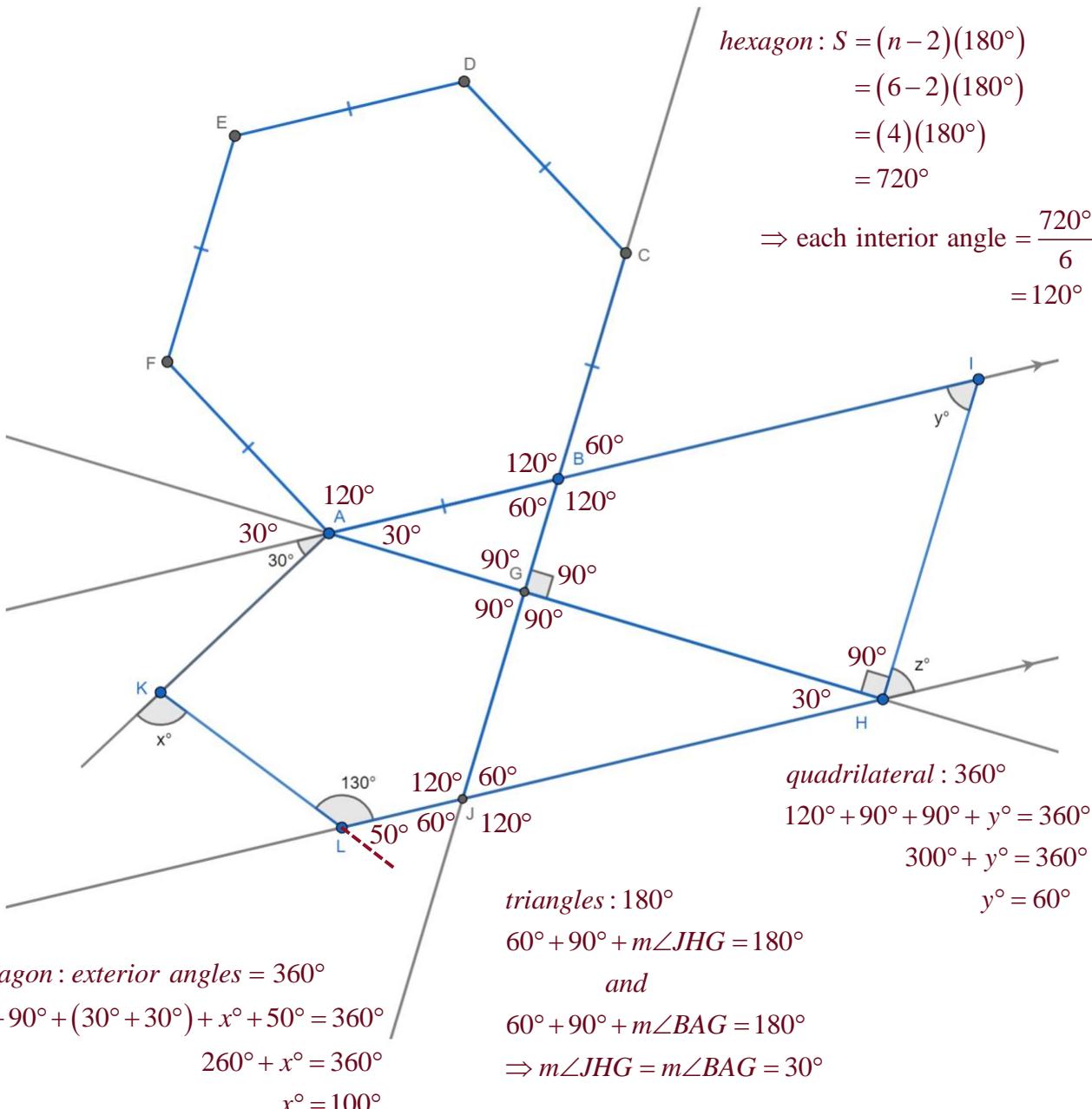


## POLYGON PUZZLE (SAMPLE RESPONSES)

Lines  $\overline{AI}$  and  $\overline{LH}$  are parallel. Use the image below to find the sum of  $x$ ,  $y$ , and  $z$ .



$$30^\circ + 90^\circ + z = 180^\circ$$

$$120^\circ + z^\circ = 360^\circ$$

$$z^\circ = 60^\circ$$

The sum of  $x$ ,  $y$ , and  $z$  is 220.