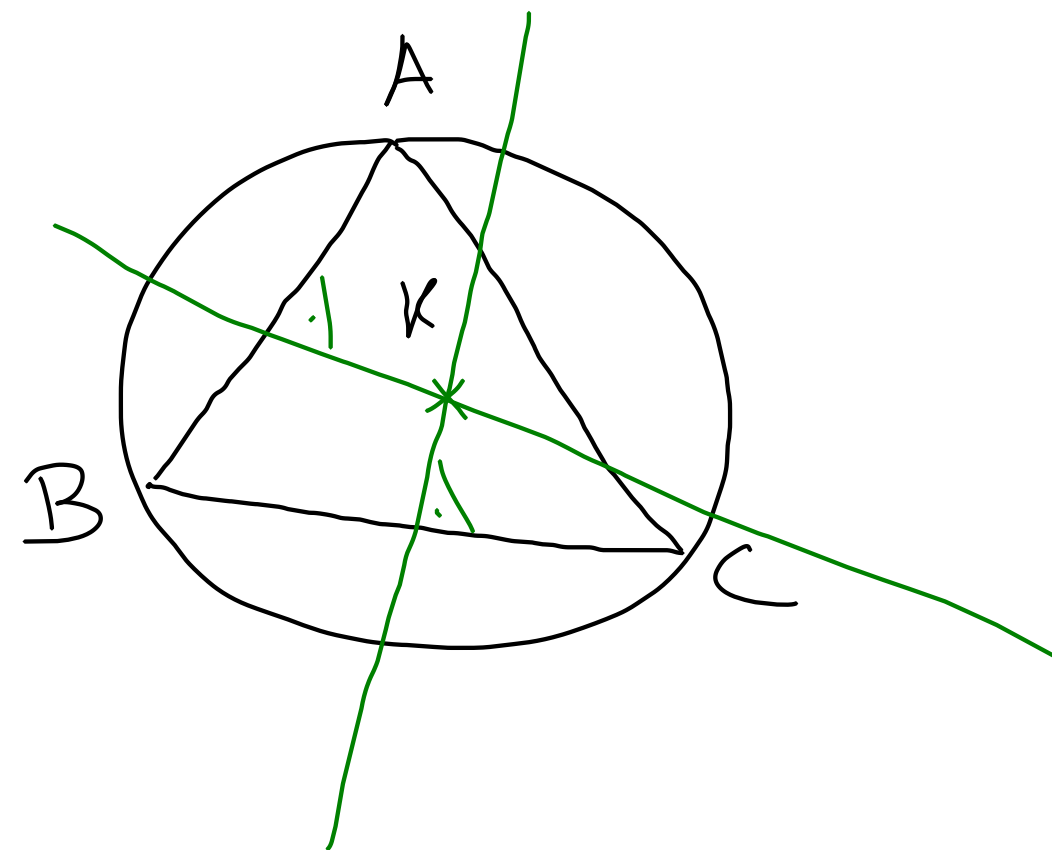


# Ex 3.1.22

$$m_{AB} : x + 2y - 10 = 0$$

$$m_{AC} : x + y - 2 = 0$$

$$m_{BC} : 3x + y + 2 = 0$$



$$K = m_{AB} \cap m_{AC} : \begin{cases} x + 2y = 10 \\ x + y = 2 \end{cases} \dots K(-2; 4)$$

$$r = \underset{\substack{\nearrow \\ \text{distance}}}{\delta(K; A)} = \| \vec{KA} \| = \left\| \begin{pmatrix} 1 + 2 \\ 8 - 4 \end{pmatrix} \right\| = \left\| \begin{pmatrix} 3 \\ 4 \end{pmatrix} \right\| = \sqrt{9 + 16} = \sqrt{25}$$

$\Leftrightarrow r = 5$