

$\overrightarrow{KJ}$  is tangent to circle  $C$  at  $J$ ,  $\overrightarrow{KL}$  is tangent to circle  $C$  at  $L$ , and  $m\widehat{ML} = 138^\circ$ .

1. Find  $m\angle M$
2. Find  $m\widehat{MJ}$

