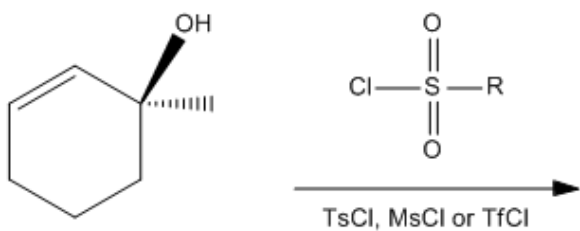


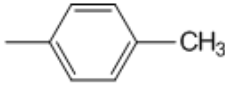
## CONCEPT: LEAVING GROUP CONVERSIONS - SULFONYL CHLORIDES


□ Alcohols can attack sulfonyl chlorides to create sulfonate esters.

- They always proceed with \_\_\_\_\_ of configuration.

### Alcohols to Sulfonate Esters:



Where  $R$  =  = **Tosyl** (tosylate)  
**Ts** (-OTs)

Where  $R$  =  = **Mesyl** (mesylate)  
**Ms** (-OMs)

Where  $R$  =  = **Triflyl** (triflate)  
**Tf** (-OTf)