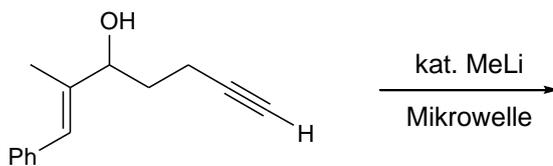
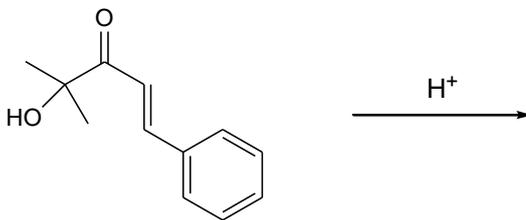
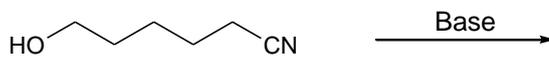
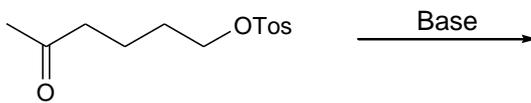
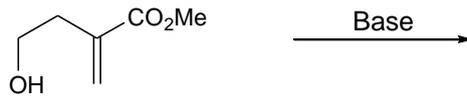


Seminar zur Vorlesung Organische Chemie 5. FS

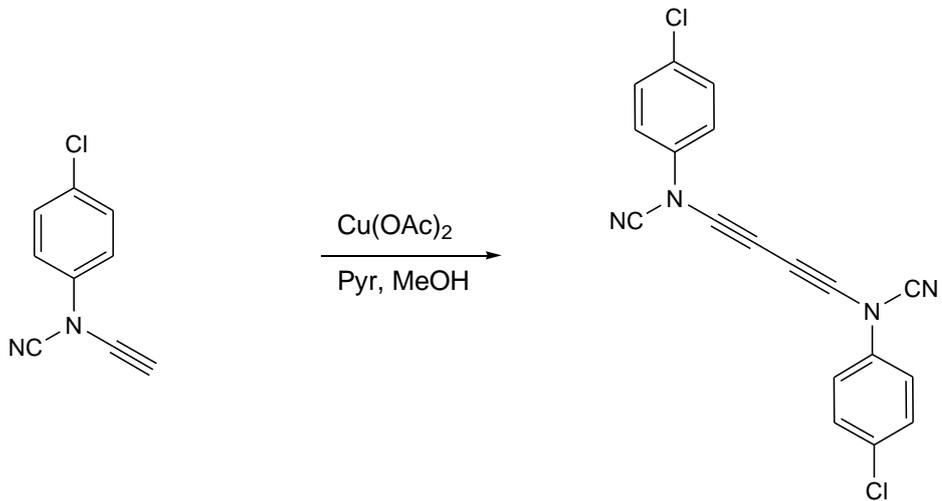
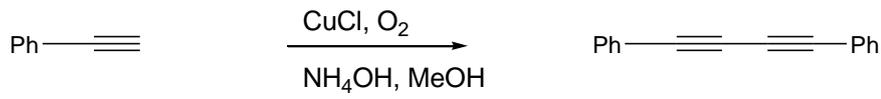
Übungsblatt Nr. 5

1. Formulieren Sie die Zyklisierung und klassifizieren Sie die Reaktionen nach den Baldwin-Regeln:

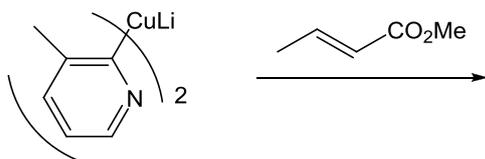
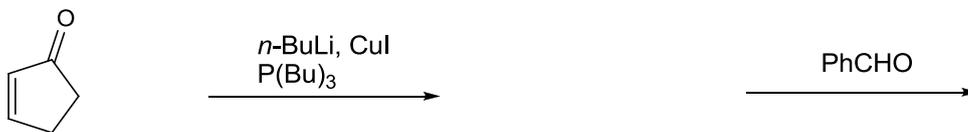
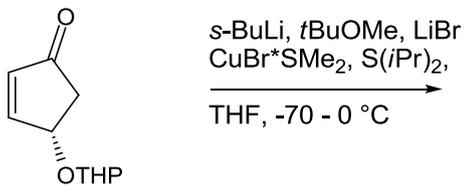


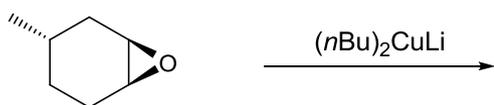
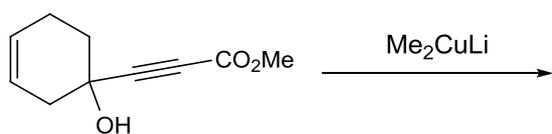
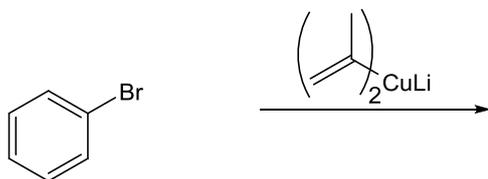
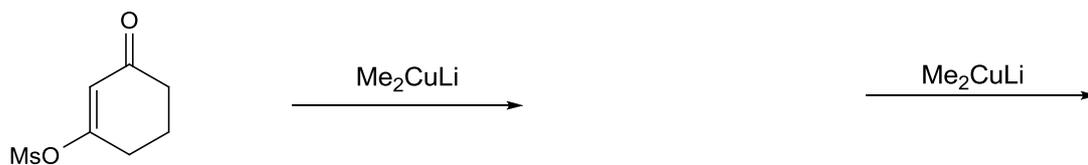
Δ , Claisen-Umlagerung

2. Zeigen Sie den Mechanismus folgender Reaktionen. Muss Kupfer in katalytischen oder stöchiometrischen Mengen verwendet werden?



3. Vervollständigen Sie die Reaktionsgleichungen:





- 
 1. ZnCl_2
 2. CH_3CHO
 3. H^+

