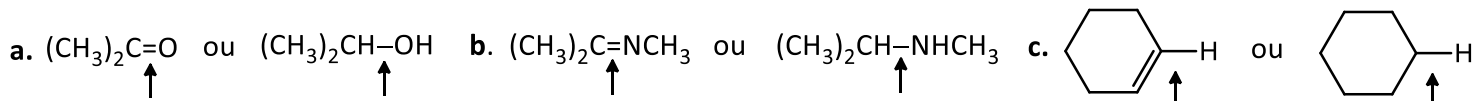


SÉRIE N° 03

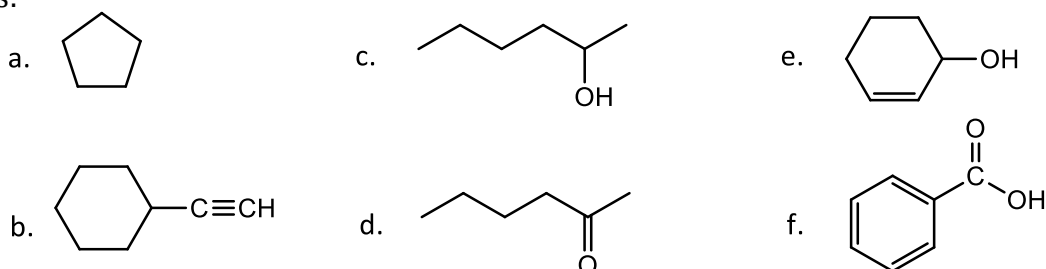
EXERCICE 01

Parmi les liaisons indiquées, laquelle absorbe à un $\bar{\nu}$ plus élevé dans un spectre IR ?



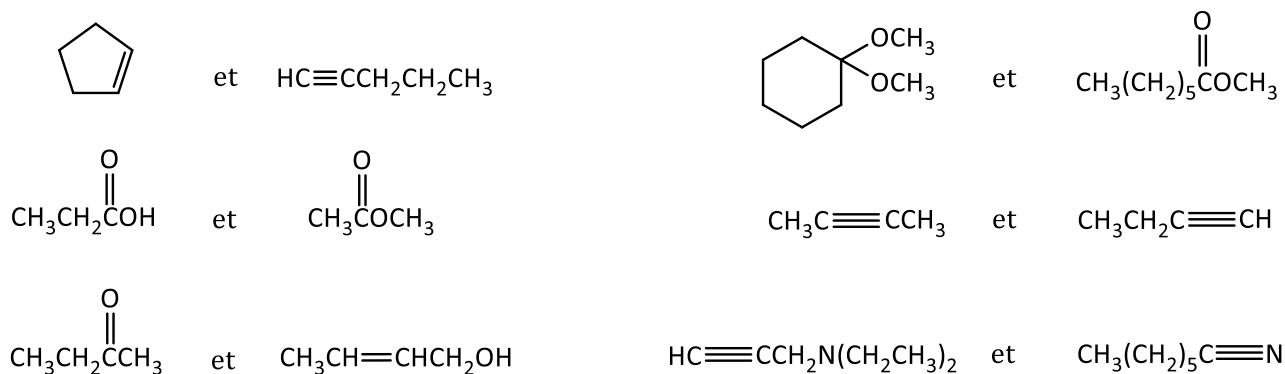
EXERCICE 02

Quelles sont les bandes caractéristiques dans le spectre IR de chacune des molécules suivantes:



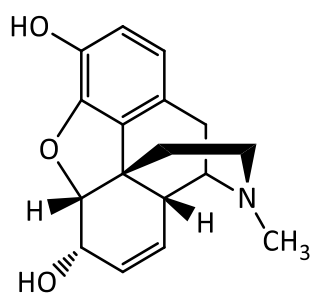
EXERCICE 03

Comment diffèrent les spectres IR de chaque paire de molécules suivantes :

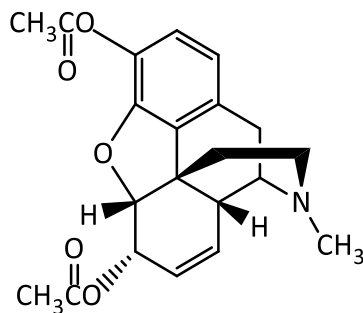


EXERCICE 04

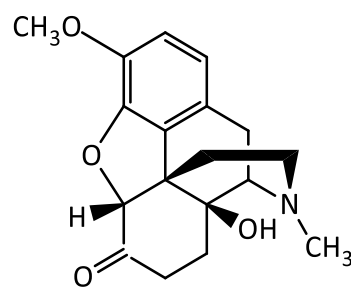
Comment utiliserait-on la spectroscopie IR pour pouvoir distinguer entre ces trois molécules ?



Morphine



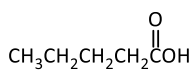
Heroin



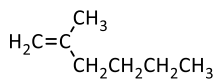
Oxycodone

EXERCICE 05

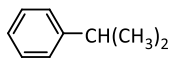
Relier chaque composé à son spectre :



A



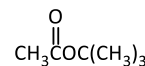
B



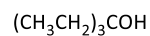
C



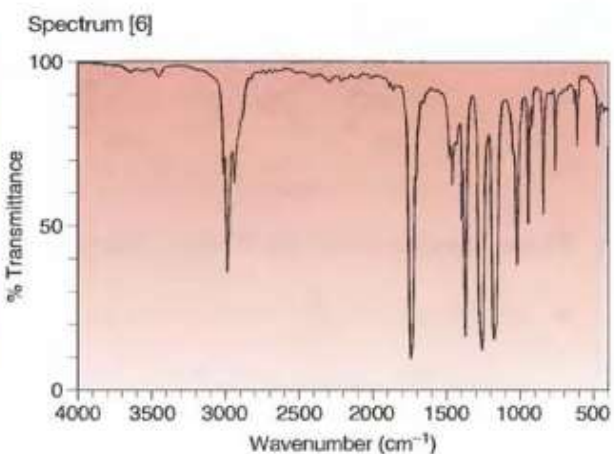
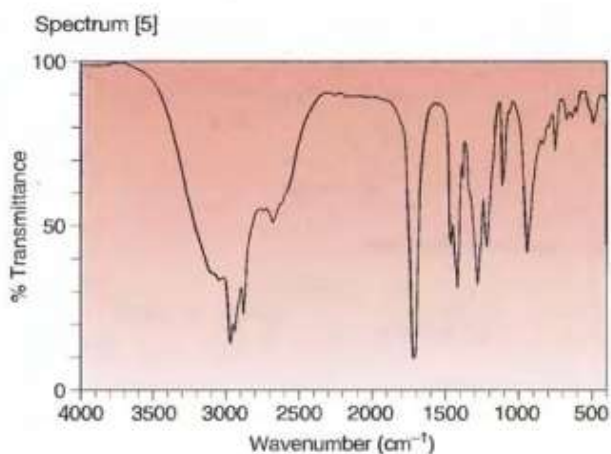
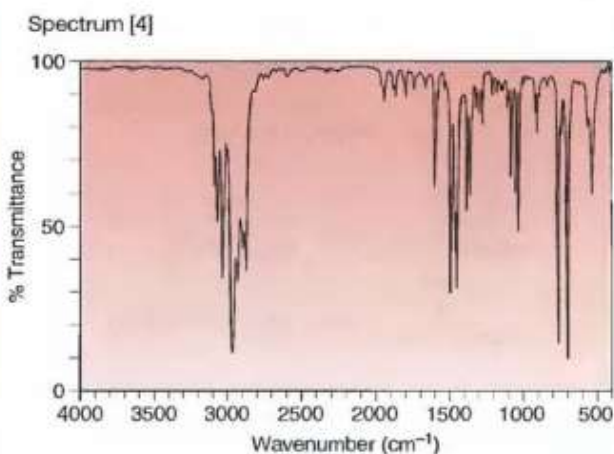
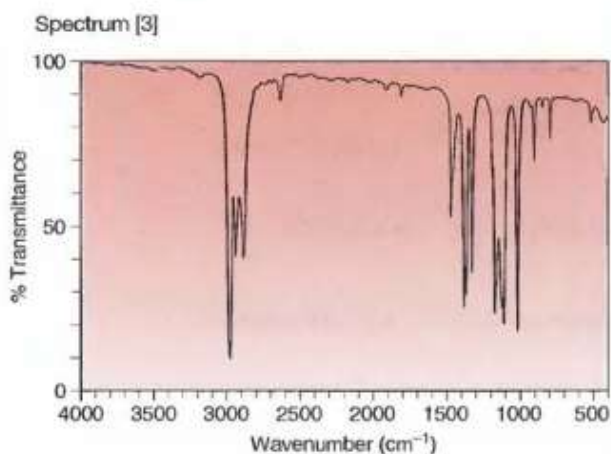
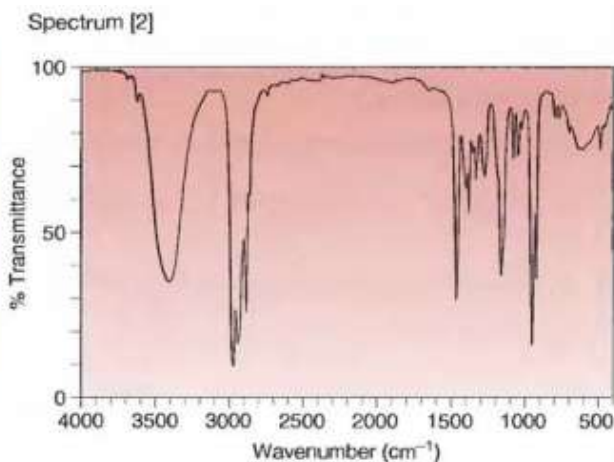
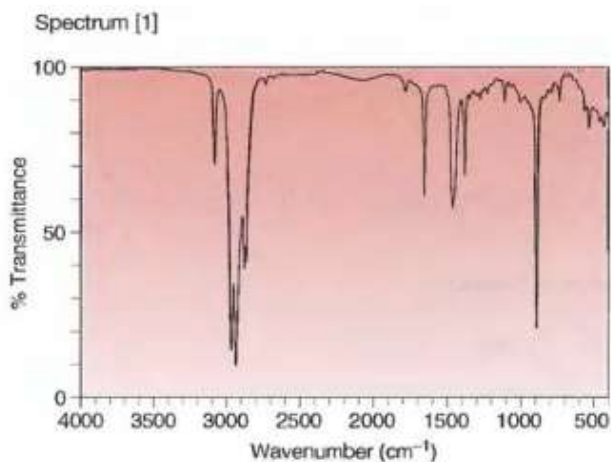
D



E



F



EXERCICE 06

Présenter les structures des sept composés ayant comme formule brute: $\text{C}_3\text{H}_6\text{O}$. Citer les bandes d'absorption majeures que l'on retrouve dans le spectre IR de chacune de ces molécules.