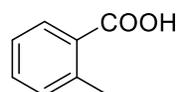
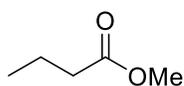
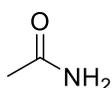
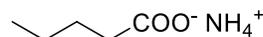
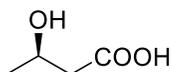
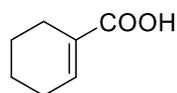


## 10. ACIDI CARBOSSILICI E DERIVATI

1) Assegna il nome e disegna la formula di struttura dei quattro acidi carbossilici di formula molecolare  $C_5H_{10}O_2$ . Quale è chirale?

2) Assegna i nomi ai seguenti composti assegnando anche la stereochimica.



3) Disegna una formula di struttura per i seguenti composti:

a) Acido fenilacetico

b) Acido 4-clorobutanoico

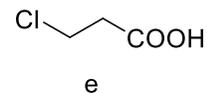
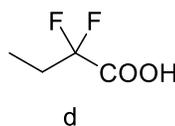
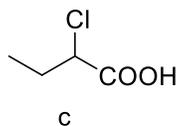
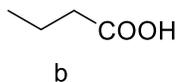
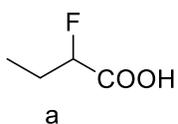
c) Acido 2-ossocicloesancarbossilico

d) Acetato di metile

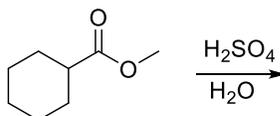
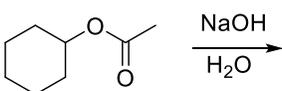
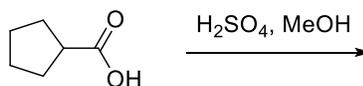
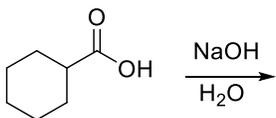
e) Butanammide

f) Acido p-iodobenzoico

4) Ordinare in ordine di acidità crescente i seguenti acidi carbossilici

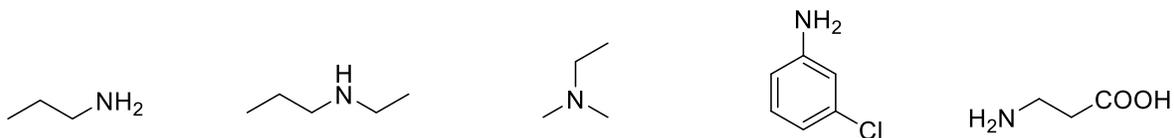


5) Scrivere i prodotti delle seguenti reazioni



## 11. AMMINE

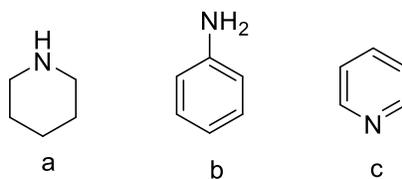
### 1) Assegna i nomi ai seguenti composti



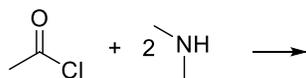
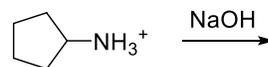
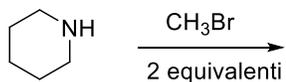
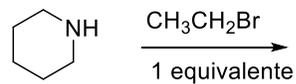
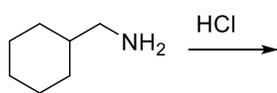
### 2) Disegna una formula di struttura per i seguenti composti:

- a) Butilammina                      b) 2-Metilpiridina                      c) *p*-Nitroanilina  
d) Cicloesilammina                  e) Trimetilammina                      f) *N*-Metilciclopentilammina

### 3) Ordina in ordine di basicità crescente i seguenti composti.

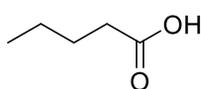


### 4) Scrivere i prodotti delle seguenti reazioni

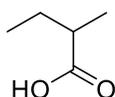


## 10. ACIDI CARBOSSILICI E DERIVATI - SOLUZIONI

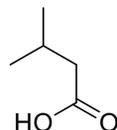
1) Assegna il nome e disegna la formula di struttura dei quattro acidi carbossilici di formula molecolare  $C_5H_{10}O_2$ . Quale è chirale?



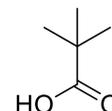
acido pentanoico



acido 2-metilbutanoico  
chirale

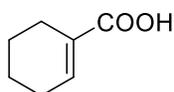


acido 3-metilbutanoico

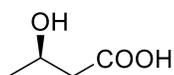


acido 2,2-dimetilpropanoico

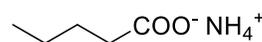
2) Assegna i nomi ai seguenti composti assegnando anche la stereochimica.



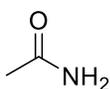
acido 1-cicloesencarbossilico



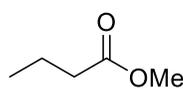
acido (S)-3-butanoico



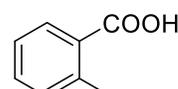
pentanoato di ammonio



acetammide



butanoato di metile



acido o-metilbenzoico

3) Disegna una formula di struttura per i seguenti composti:

a) Acido fenilacetico

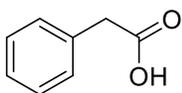
b) Acido 4-clorobutanoico

c) Acido 2-ossocicloesancarbossilico

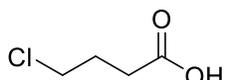
d) Acetato di metile

e) Butanammide

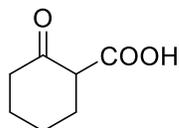
f) Acido p-iodobenzoico



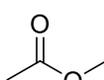
a



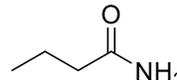
b



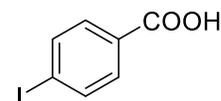
c



d

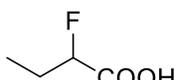


e

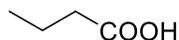


g

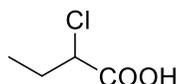
4) Ordinare in ordine di acidità crescente i seguenti acidi carbossilici



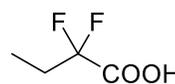
a



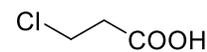
b



c



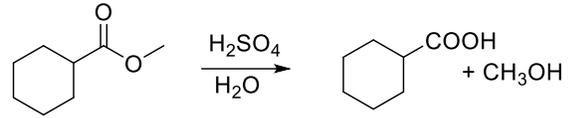
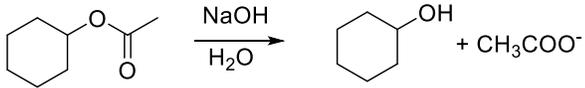
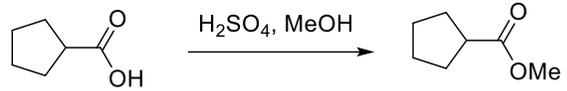
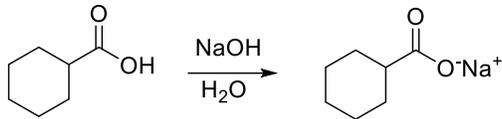
d



e

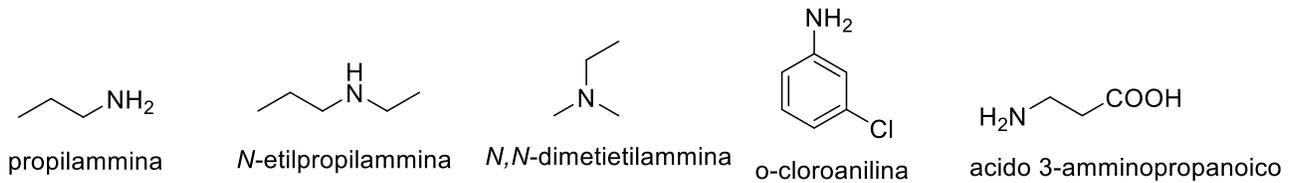
$b < e < c < a < d$

5) Scrivere i prodotti delle seguenti reazioni



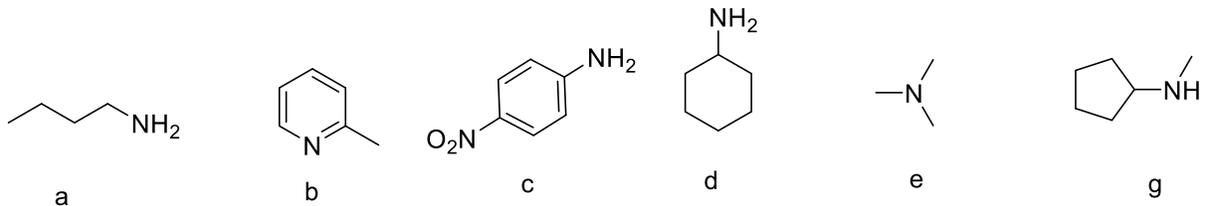
## 11. AMMINE - SOLUZIONI

### 1) Assegna i nomi ai seguenti composti

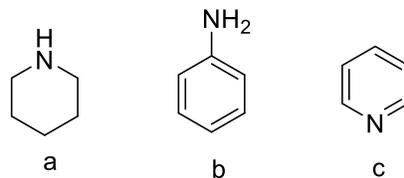


### 2) Disegna una formula di struttura per i seguenti composti:

- |                    |                    |                             |
|--------------------|--------------------|-----------------------------|
| a) Butilammina     | b) 2-Metilpiridina | c) p-Nitroanilina           |
| d) Cicloesilammina | e) Trimetilammina  | f) N-Metilciclopentilammina |



### 3) Ordina io ordine di basicità crescente i seguenti composti.



b < c < a

4) Scrivere i prodotti delle seguenti reazioni

