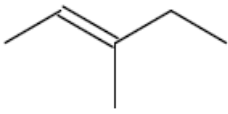
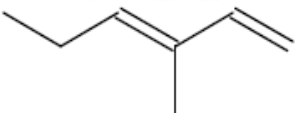
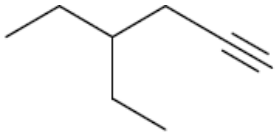
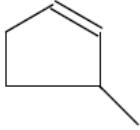
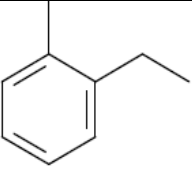
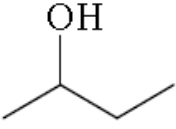
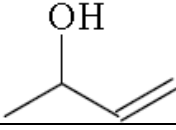
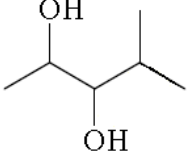
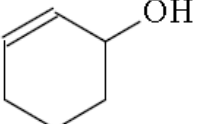
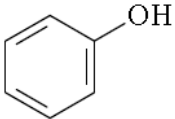
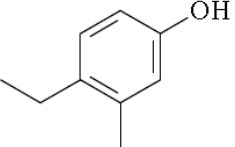
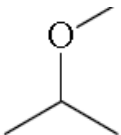
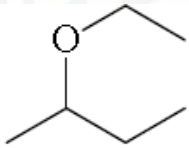
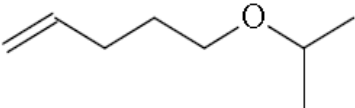
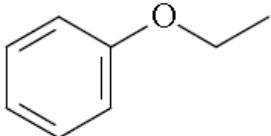
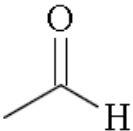
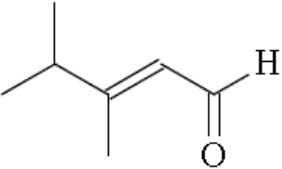
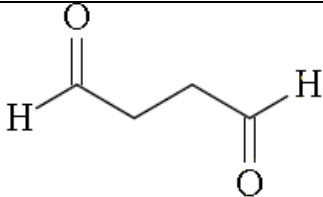
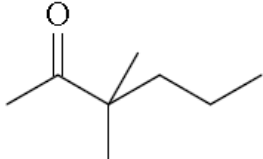
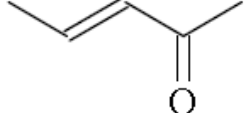
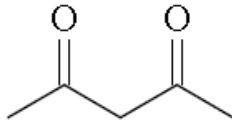
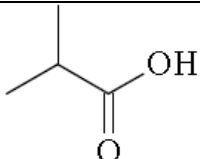
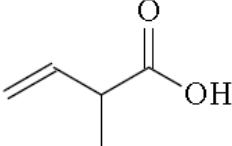
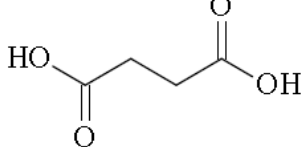
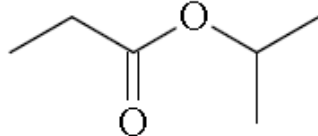
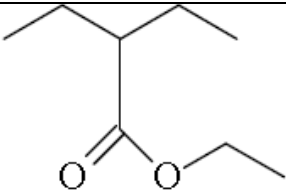
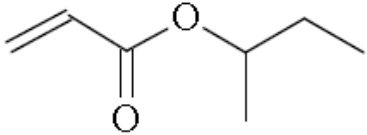
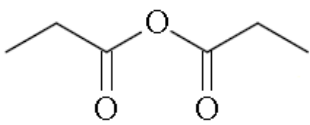
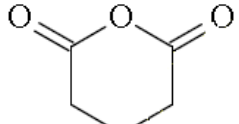


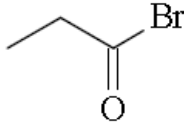
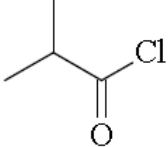
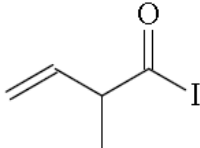
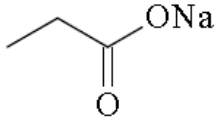
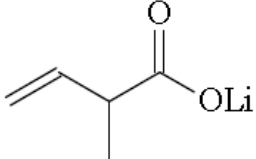
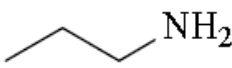
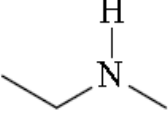
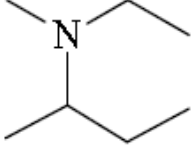
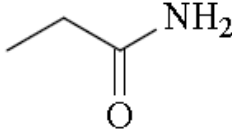
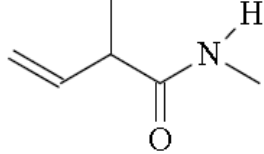
## Ligações Sigma e Pi

Para cada uma das estruturas abaixo indique o número de ligações  $\sigma$  e  $\pi$  :

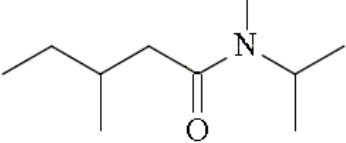
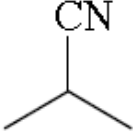
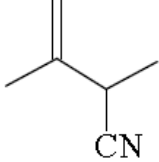
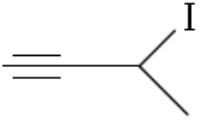
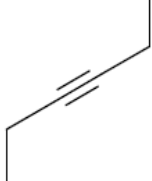
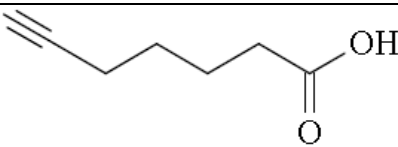
Número	Substância	Resposta
1		
2		
3		
4		
5		
6		
7		
8		
9		

Número	Substância	Resposta
10		
11		
12		
13		
14		
15		
16		
17		
18		

Número	Substância	Resposta
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		

Número	Substância	Resposta
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		


  
 aprenda online

Número	Substância	Resposta
40		
41		
42		
43		
44		
45		

### Gabarito

1-  $\sigma = 17$  e  $\pi = 1$

2-  $\sigma = 18$  e  $\pi = 2$

3-  $\sigma = 21$  e  $\pi = 2$

4-  $\sigma = 16$  e  $\pi = 1$

5-  $\sigma = 21$  e  $\pi = 3$

6-  $\sigma = 14$  e  $\pi = 0$

7-  $\sigma = 12$  e  $\pi = 1$

$$8- \sigma = 21 \text{ e } \pi = 0$$

$$9- \sigma = 17 \text{ e } \pi = 1$$

$$10- \sigma = 13 \text{ e } \pi = 3$$

$$11 - \sigma = 22 \text{ e } \pi = 3$$

$$12- \sigma = 14 \text{ e } \pi = 0$$

$$13 - \sigma = 20 \text{ e } \pi = 0$$

$$14 - \sigma = 24 \text{ e } \pi = 1$$

$$15 - \sigma = 19 \text{ e } \pi = 3$$

$$16 - \sigma = 6 \text{ e } \pi = 1$$

$$17- \sigma = 19 \text{ e } \pi = 2$$

$$18- \sigma = 11 \text{ e } \pi = 2$$

$$19- \sigma = 24 \text{ e } \pi = 1$$

$$20- \sigma = 13 \text{ e } \pi = 2$$

$$21- \sigma = 14 \text{ e } \pi = 2$$

$$22- \sigma = 13 \text{ e } \pi = 1$$

$$23- \sigma = 14 \text{ e } \pi = 2$$

$$24 - \sigma = 13 \text{ e } \pi = 2$$

$$25- \sigma = 19 \text{ e } \pi = 1$$

$$26- \sigma = 25 \text{ e } \pi = 1$$

$$27- \sigma = 20 \text{ e } \pi = 2$$

$$28- \sigma = 18 \text{ e } \pi = 2$$

$$29- \sigma = 14 \text{ e } \pi = 2$$

$$30- \sigma = 9 \text{ e } \pi = 1$$

$$31- \sigma = 12 \text{ e } \pi = 1$$

$$32- \sigma = 13 \text{ e } \pi = 2$$

$$33- \sigma = 9 \text{ e } \pi = 1$$



$$34- \sigma = 13 \text{ e } \pi = 2$$

$$35- \sigma = 12 \text{ e } \pi = 0$$

$$36- \sigma = 12 \text{ e } \pi = 0$$

$$37- \sigma = 24 \text{ e } \pi = 0$$

$$38- \sigma = 11 \text{ e } \pi = 1$$

$$39- \sigma = 18 \text{ e } \pi = 2$$

$$40- \sigma = 32 \text{ e } \pi = 1$$

$$41- \sigma = 11 \text{ e } \pi = 2$$

$$42- \sigma = 15 \text{ e } \pi = 3$$

$$43- \sigma = 9 \text{ e } \pi = 2$$

$$44- \sigma = 15 \text{ e } \pi = 2$$

$$45- \sigma = 18 \text{ e } \pi = 3$$

