1) Have a look at the character matrix below: (it's the one we did in class)

	1	2	3	4	5	6	7	8	9	10
outgroup	0	0	0	0	0	0	0	0	0	0
A	1	0	0	0	1	1	0	0	0	1
B	1	0	0	0	1	0	0	0	0	1
C	0	0	0	0	0	0	0	0	1	1
D	0	1	1	0	0	0	1	1	0	1
E	0	1	1	1	0	0	0	1	0	1

Find the most parsimonious tree to fit the character matrix above. I would recommend using the wagner method.

Upload a picture of your work and tree.

2) Have a look at the character matrix below:

	1	2	3	4	5	6	7	8	9
A	1	0	1	1	1	1	0	1	1
B	0	0	1	1	0	0	0	0	0
C	1	0	1	1	1	1	0	0	1
D	0	1	0	1	0	0	1	0	0
E	0	1	0	1	0	0	1	1	0
F	1	0	1	1	0	1	0	0	1
outgroup	0	0	0	0	0	0	0	0	0

Find the most parsimonious tree to fit the character matrix above. I would recommend using the wagner method.
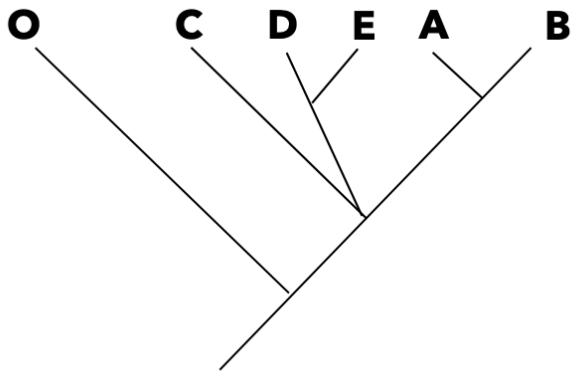
Upload a picture of your work and tree.

3) Have a look at the character matrix below:

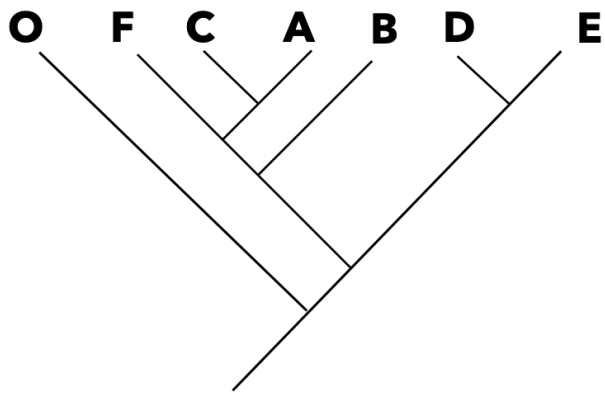|	1	2	3	4	5	6	7	8
outgroup	0	0	0	0	0	0	0	0
A	0	1	0	1	0	0	1	0
B	1	0	0	1	1	0	1	0
C	1	0	1	1	1	1	1	0
D	1	0	1	1	1	1	1	1
E	0	0	0	1	0	0	0	1

Find the most parsimonious tree to fit the character matrix above. I would recommend using the wagner method.
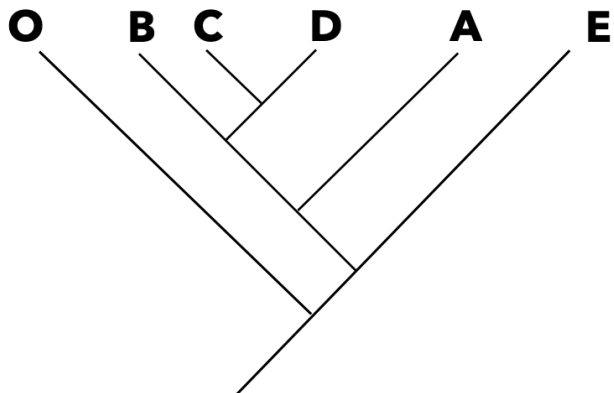
Upload a picture of your work and tree.

ANSWERS:

O   C   D   E   A   B

1)

O   F   C   A   B   D   E

2)

O   B   C   D   A   E

3)