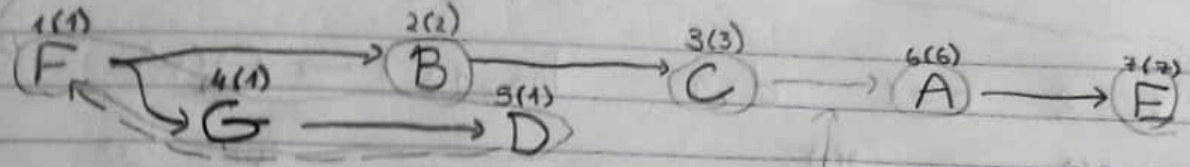
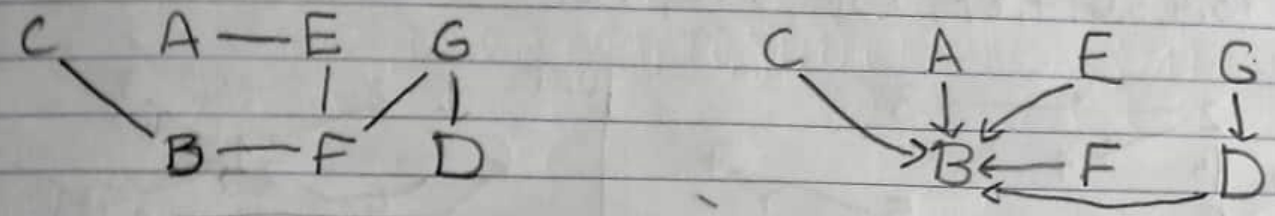
6/6
EN22

1 a)

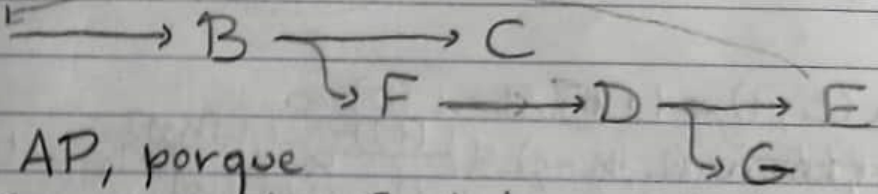


b) Fazer um arco de C a A encadearia todos os nós soltos, e um arco de E a F reduziria o valor low de todos estes p/ 1.

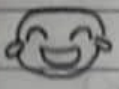
2 a)



b)



B é AP, porque se for removido C é desconectado do resto do grafo.

3 

(não tem DP)

4
```
def func(A, n, sums, A_sum, idx):
    if idx = n:
        return true if all_sums_equal(sums) else false
    result = false
    for i = 0 → 2:
        if result = false and sums[i] + A[idx] ≤ A_sum/3:
            sums[i] += A[idx]
            result = func(A, n, sums, A_sum, idx + 1)
            sums[i] -= A[idx]
    return result
```

$O(3^n)$