Provide two examples to show that we can't enforce Sufficiency and Separation at the same time. Rounded to 6 decimals

Ex 1: Separation holds but not sufficiency

```
291
                                        SEPERATED
                                                      #########")
          for yeet in ['YES', 'NO']:
292
              for gender in ["Male", "Female"]:
293
294
                  gd.set_evidence(gender)
                  hl.set_evidence(yeet)
295
296
                  query1 = VE(medical, co, [hl])
297
                  query2 = VE(medical, co, [hl, gd])
298
299
                  for i in [0, 1]:
                      print(round(query1[i],6), round(query2[i],6))
300
301
          BUT NOT SUFFICIENT
                                                             ########"")
302
          for yeet in ['YES', 'NO']:
303
304
              for gender in ["Male", "Female"]:
305
                  gd.set_evidence(gender)
306
                  co.set_evidence(yeet)
307
                  query1 = VE(medical, hl, [co])
                  query2 = VE(medical, hl, [co, gd])
308
309
310
                  for i in [0, 1]:
                      print(round(query1[i],6), round(query2[i],6))
311
212
PROBLEMS 21
            OUTPUT
                     TERMINAL
                              DEBUG CONSOLE
 ******************
                     SEPERATED
                                  0.787694 0.787694
0.212306 0.212306
0.787694 0.787694
0.212306 0.212306
0.583204 0.583204
0.416796 0.416796
0.583204 0.583204
0.416796 0.416796
                   BUT NOT SUFFICIENT
                                        *****************
0.479071 0.515268
0.520929 0.484732
0.479071 0.438108
0.520929 0.561892
0.257518 0.286171
0.742482 0.713829
0.257518 0.227235
0.742482 0.772765
```

```
314
                                      NOT SEPERATED
                                                       ###############
315
         for yeet in ['YES', 'NO']:
             for gender in ["Male", "Female"]:
316
                 gd.set_evidence(gender)
317
318
                 co.set evidence(yeet)
                 query1 = VE(medical, hl, [co])
319
320
                 query2 = VE(medical, hl, [co, gd])
321
                 for i in [0, 1]:
322
323
                     print(round(query1[i],6), round(query2[i],6))
324
         325
                                    SUFFICIENT
                                                   #########")
         for veet in ['YES', 'NO']:
326
             for gender in ["Male", "Female"]:
327
328
                 gd.set evidence(gender)
329
                 hl.set evidence(yeet)
330
                 query1 = VE(medical, co, [hl])
                 query2 = VE(medical, co, [hl, gd])
331
                 # query2 = VE(medical, co, [hl, vg])
332
                 # query2 = VE(medical, co, [hl, ac])
333
                 # query2 = VE(medical, co, [hl, ag])
334
335
336
                 for i in [0, 1]:
                     print(round(query1[i],6), round(query2[i],6))
337
PROBLEMS 21
           OUTPUT
                    TERMINAL
                             DEBUG CONSOLE
NOT SEPERATED
                                   0.479071 0.515268
0.520929 0.484732
0.479071 0.438108
0.520929 0.561892
0.257518 0.286171
0.742482 0.713829
0.257518 0.227235
0.742482 0.772765
SUFFICIENT
                                0.787694 0.787694
0.212306 0.212306
0.787694 0.787694
0.212306 0.212306
0.583204 0.583204
0.416796 0.416796
0.583204 0.583204
0.416796 0.416796
```

Because of these two examples we can conclutime.	ude we cant enforce suff	iciency and separation at	the same