

1)

1a: True (Example: 1)

1b: False (Example: 2)

1c: True (Example: 0)

1d: False (Example: 2)

1e: False (Example: 5)

1f: True (Example: 5)

2)

2a: False (Example: (2,0.1)(4,0.1)(5,0.1)(10,0.2)(0.5,0.1)(0.25,0.1)(0.2,0.1)(0.1,0.1)(1,0.1))

2b: True (Example: (1,1), (0.5,2), (0.25,4), (0.2,5), (0.1,10), (2,0.5), (4,0.25), (5,0.2), (10,0.1), )

2c: True (Example: (1,1), (0.5,2), (0.25,4), (0.2,5), (0.1,10), (2,0.5), (4,0.25), (5,0.2), (10,0.1), )

2d: False (Example: (0.1,1)(0.1,2)(0.1,4)(0.1,5)(0.2,10)(0.1,0.5)(0.1,0.25)(0.1,0.2)(0.1,0.1))

2e: False (Example: (1,0.1)(2,0.1)(4,0.1)(5,0.1)(10,0.2)(0.5,0.1)(0.25,0.1)(0.2,0.1)(0.1,0.1))

2f: True (Example: (1,1), (2,0.5), (4,0.25), (5,0.2), (10,0.1), (0.5,2), (0.25,4), (0.2,5), (0.1,10), )