Exercise Evidence Theory

We are selecting a new employee from a set of 3 candidates names A, B and C. After analysing some features of their curriculum we have the following mass function:

m(a) = 0.3, m(B)= 0.1, m(C)= 0.1, m(AB)= 0, m(AC)=0.4, m(BC)=0, m(ABC)= 0.1

a) Calculate the belief and plausibility for all the elements of the frame of discernment.
b) We have to discard one of the candidates before continuing with the personal interviews. Observing the certainty intervals, explain which candidate should be eliminated.
c) Invent a new mass function that generates some conflict with the previous one. Show the combination matrix indicating where is the conflict.