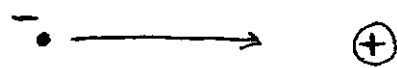
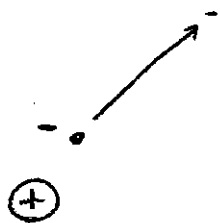


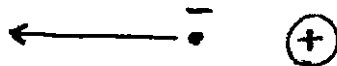
Which of the following is a possible final state for an electron colliding with a stationary proton?



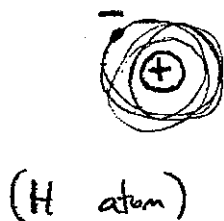
A)



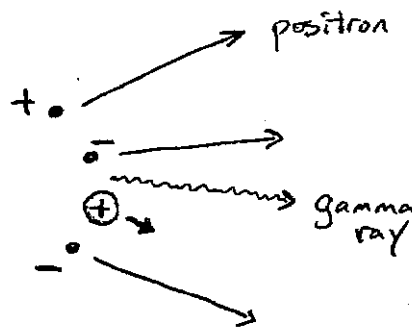
B)



C)

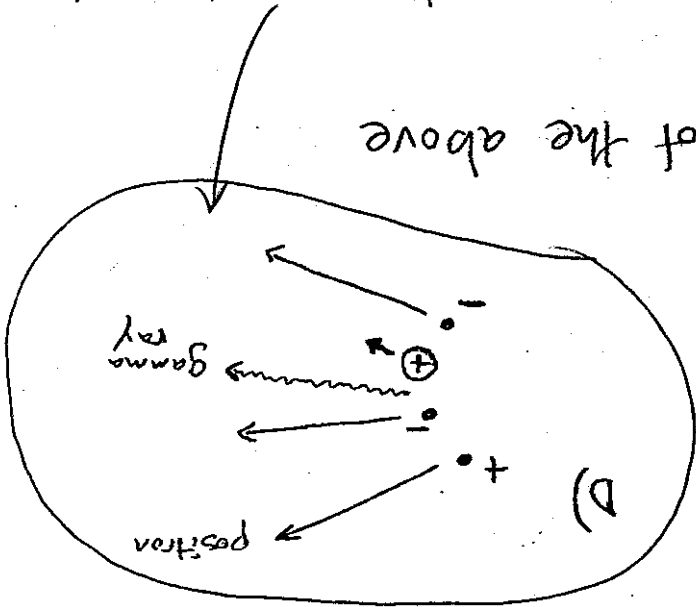
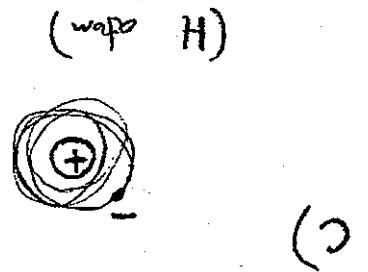
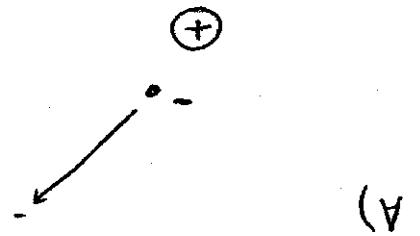


D)



E) Any of the above

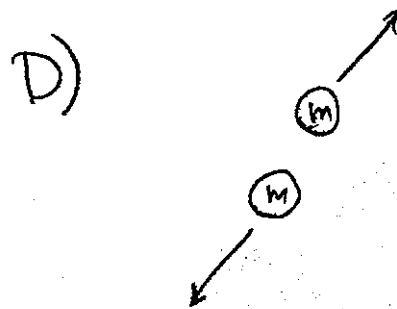
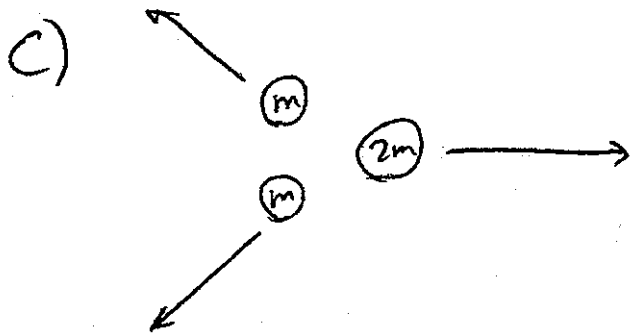
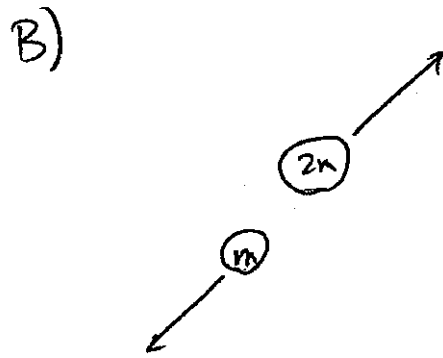
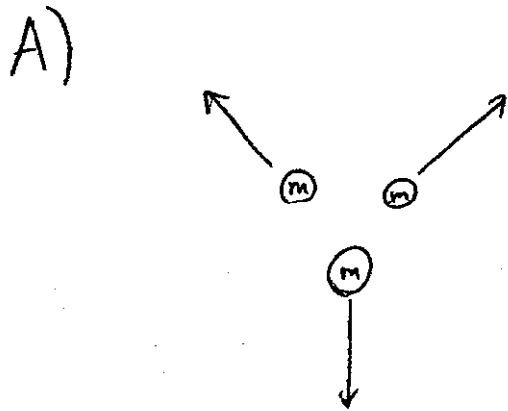
Which of the following is a possible final state for an electron colliding with a stationary proton?



E) Any of the above

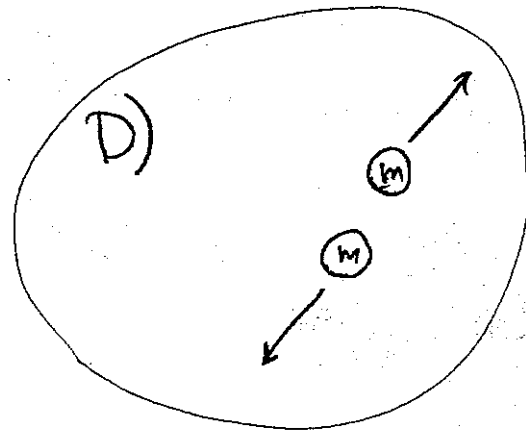
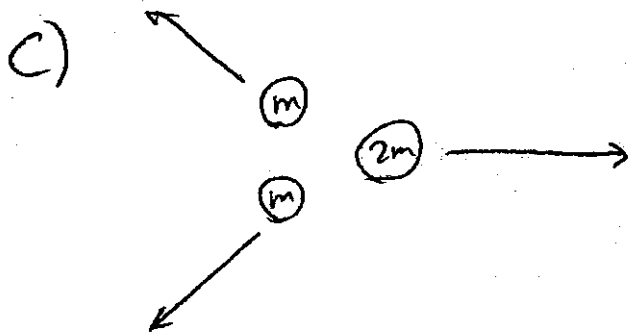
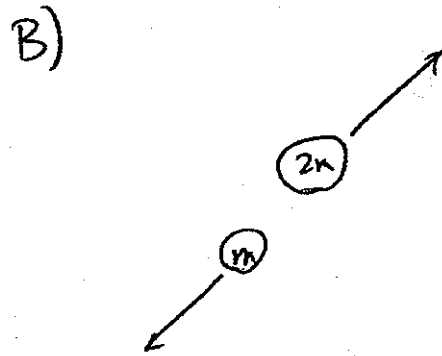
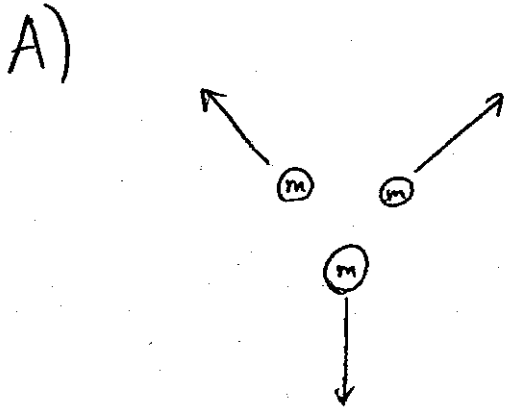
this is the only one that conserves momentum.

A stationary nucleus of mass $3m$ decays into smaller nuclei. Which of the following represents a possible final state?



E) Both A and B.

A stationary nucleus of mass $3m$ decays into smaller nuclei. Which of the following represents a possible final state?



E) Both A and B.

↑
all others have
total energy
greater than
 $3mc^2$.