Answers to Exercise 11.1 Showing Electron Movement with Curved Arrows





You can attach the hydrogen atom from HCl to either of the two carbon atoms from the alkene - as long as you draw the positive charge on the other carbon atom.

(d)



You can attach the hydrogen atom from  $H_3O^+$  to either of the two carbon atoms from the alkene - as long as you draw the positive charge on the other carbon atom.



You can attach the hydrogen atom from HBr to either of the two carbon atoms from the alkyne - as long as you draw the positive charge on the other carbon atom. Note that the positively charged carbon atom is still linear as per VSEPR.