Three charges are located along the $y$ axis of a coordinate system. The charges and coordinates are:

+2.25 $\mu$C at −2.50 m
−1.36 $\mu$C at −1.50 m
+2.72 $\mu$C at −0.50 m

A. What is the direction of the total force on each charge? (Take up to be positive $y$.)

B. What is the magnitude of the force on each charge?

C. Can you find three charges and three locations where the total force is upward on all three charges?

D. Can you find three charges and three locations where the total force is zero on all three charges?