6. This problem is solved in exactly the same manner as the previous one, but we must give due regard to the sign on the charge.  $\Box = \Box a$ 

$$F = E q$$
  
 $F = (30 N / C) (-3.0 C)$   
 $F = -90 N$ 

The negative sign indicates that the force is in the opposite direction to the electric field, a result we should expect, because the charge had a negative sign.