1. Solve \( 3x^2 = 4 \mod 11 \)
   
   (HINT: multiply by \( 3^{-1} \mod 11 \))

2. Solve \( x^2 + x = 2 \mod 11 \) by completing the square.

3. Solve \( x^2 + x - 2 = 0 \mod p \) by factoring the left-hand side.