1. $j^3 - j^2 - 4j + 4$ has a factor $(j-(-2))$ compute all other factors:

$(j - 3)\ (j - 2)\ (j + 3)$

$(j - 4)\ (j - 2)\ (j + 3)$

$(j - 2)\ (j - 1)\ (j + 2)$

$(j - 4)\ (j - 2)\ (j - 1)$

Solution
Apply Long Division.
$(j - 2)\ (j - 1)\ (j + 2)$