1. $j^3 - 4j^2$ has a factor $(j-0)$ compute all other factors:

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

$(j-2)(j+1)(j+3)$

$(j-4)j^2$

$(j-1)(j+1)(j+4)$

Solution
Apply Long Division.

$(j-4)j^2$