1. $b^3 - 6b^2 + 8b$ has a factor $(b-0)$ compute all other factors:

$(b-1)\ (b+2)\ (b+4)$

$(b-4)\ (b-1)\ (b+1)$

$(b-4)\ (b-2)\ b$

$(b-3)\ (b-1)\ (b+4)$

Solution
Apply Long Division.
$(b-4)\ (b-2)\ b$