2. $m^3 - 4m^2 - 9m + 36$ has a factor $(m - (-3))$ compute all other factors:

$(m - 4)(m - 2)(m + 1)$

$(m - 4)^2(m - 2)$

$(m - 4)(m - 3)(m + 3)$

$(m - 4)(m - 3)(m + 1)$

Solution
Apply Long Division.
$(m - 4)(m - 3)(m + 3)$