2. $e^3 - 7e - 6$ has a factor $(e - (-2))$ compute all other factors:

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

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

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

$(e - 1)e(e + 1)$

Solution
Apply Long Division.
$(e - 3)(e + 1)(e + 2)$