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

$(k-3)(k-1)(k+3)$

$(k-3)^2(k+3)$

$(k-2)(k-1)k$

$(k-3)(k-2)(k+3)$

Solution

Apply Long Division.

$(k-2)(k-1)k$