1. $w^3 - 6w^2 + 11w - 6$ has a factor $(w-1)$ compute all other factors:

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

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

$(w-3)(w-2)(w-1)$

$(w-4)(w-3)w$

Solution

Apply Long Division.

$(w-3)(w-2)(w-1)$