4. $f^3 - 5f^2 + 7f - 3$ has a factor $(f-1)$ compute all other factors:

$(f - 3)(f - 1)(f + 3)$

$(f - 4)(f - 3)f$

$(f - 3)(f - 1)^2$

$(f - 3)^2(f - 2)$

Solution
Apply Long Division.

$(f - 3)(f - 1)^2$