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

$(d-2)(d-1)d$

$(d-3)(d-1)(d+1)$

$(d-2)(d-1)^2$

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

Solution

Apply Long Division.

$(d-2)(d-1)^2$