

5. $u^3 - 6u^2 + 12u - 8$ has a factor $(u-2)$ compute all other factors:

$$(u-2)^2 (u+2)$$

$$(u-3) (u-2) u$$

$$(u-2)^3$$

$$(u-2) u (u+4)$$

Solution

Apply Long Division.

$$(u-2)^3$$