

2. $u^3 - 8u^2 + 19u - 12$ has a factor $(u-1)$ compute all other factors:

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

$$(u - 3) u (u + 1)$$

$$(u - 4) (u - 3) (u - 1)$$

$$(u - 4) (u - 3)^2$$

Solution

Apply Long Division.

$$(u - 4) (u - 3) (u - 1)$$