

3. $u^3 - 7u^2 + 12u$ has a factor $(u-0)$ compute all other factors:

$$(u - 1)^2 (u + 4)$$

$$(u - 1) u^2$$

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

$$(u - 1) u (u + 4)$$

Solution

Apply Long Division.

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