

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

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

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

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

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

Solution

Apply Long Division.

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