

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

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

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

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

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

Solution

Apply Long Division.

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