

1. $u^3 - 7u - 6$ has a factor $(u - (-2))$ compute all other factors:

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

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

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

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

Solution

Apply Long Division.

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