

1. $u^3 + u^2 - 14u - 24$ has a factor $(u - (-3))$ compute all other factors:

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

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

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

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

Solution

Apply Long Division.

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